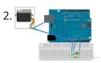


Advanced View Arduino Projects List

List of Projects using arduino with advance view:



Quantifying Access to your Mind using Arduino So, I manage a creative technology lab at California College of the Arts. It's essentially an educational hackerspace for art and design students. Pretty awesome, right? After graduating from the University of Minnesota with a degree in mechanical engineering, I was desperately trying to find..... Listed under: How To – DIY – Projects



Control Servo with Light using Arduino Hello! In this Instructable i will teach you how to control a servo using a Photocell. This is very simple and good for beginners. Step 1: Materials 1 x Photocell 1 x 10k Resistor 1 x Arduino 1x Breadboard 1x Servo and some jumpers Step...... Listed under: Motor Projects, Projects



Arduino Wireless Animatronic Hand BTW!!!!! This instructable is awsomeeeeeeThis is a very simple but at the same time a very hard project depending on your skill level. Lets get to building! What this is, is a wireless animatronic hand that doesn't need a computer to operate. The user wears..... Listed under: Projects, Sensor – Transducer – Detector Projects



Binary/ Analog Clock I was inspired by the digital/ analog clock to make my own special clock as my second instructable. I browsed the internet and found that servo clocks are rare and binary are common. So i decided to combine the two and this is what I..... Listed under: Clock – Timer Projects

5. Control anything remotely with Infrared signals using Arduino Who would have thought that just about every Arduino attachment can be controlled in some way with a TV

remote? Now its time to find out how. Arduino.skp141 KB Step 1: Setup and Materials The setup for this is quite basic. The real challenge is..... Listed under: Projects, Radio Projects

6.

How to make an Arduino from scratch Frugal Engineering is the best way forward for science. If you're interested in making some arduino's from scratch , you've come to the right place. You can see a video tutorial of this instructable : here It will supplement any loopholes or doubts you may...... Listed under: How To –

DIY - Projebis website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT Read More





Arduino Bluetooth Serial Connections This is an introduction on how to setup, make a basic connection, and send data to and from an Arduino using Bluetooth! Bluetooth is great for transmitting data over medium distances and what's more, Arduino just treats it like a serial data connection. This means..... Listed under: Other Projects, Projects



To blink LED from mobile phone or iPod or another computer via WiFi Hello Everyone, I like this site too much, the site really played very important role in awakening my enthusiasm and creativity. This is my first project and its really for the first timers project. I got this project from Instructible site , modified to access..... Listed under: LED Projects



RGB LED Strip Circuit with Arduino This Instructable covers the assembly of a circuit capable of PWM-ing (pulse width modulating) a high-power RGB LED strip and programming an Arduino to cycle through a range of colors. In this context, "high power" is 9-12 volts. I will discuss how to mount a..... Listed under: LED Projects



Arduino – Control LEDs with a Remote Control Step 1: IR library First you need to go to this page and download the IR library. You just need to follow the read me file to install. I think that any IR remote control can do this, I'll be using a Philips Universal one...... Listed under: LED Projects



'Knock Back' – A Knock Echoing Arduino This is a simple Arduino sketch that was originally designed to experiment with arrays and the built-in timing functionality. I based it on the tutorial sample code http://www.arduino.cc/en/Tutorial/Knock The system consists of a piezo sensor connected to an analog pin that listens for a knock from...... Listed under: Sensor – Transducer – Detector Projects



How to Build a Robotic Hand with Haptic Feedback using Arduino For science fair this year, I felt like building something instead of doing an experiment. All I needed to d look around Instructables for a project idea. I was inspired by njkl44's robotic hand since it reminds me so much of stuff out of..... Listed under: Projects, Robotics – Automation Projects



Arduino Tutorial: Capacitive Touch Sensors Hello everyone! This instructable is a tutorial that will guide you on using the Capacitive touch sensors with Arduino. A Capacitive sensor is a kind of touch sensor, that requires little or no force to activate. In this Instructable about capacitive touch sensing, I'll show...... Listed under: Sensor – Transducer – Detector Projects



Make Wired Robotic Arm Edge to "Wireless" with DIY Arduino and XBee UPDATE: Added Schematic, Top Layer PCB, Bottom Layer PCB, and both Top, Bottom PCB images When I finished the "RevIO" - an Arduino Clone that has the different way of exposing pins usage. I decided to go further to the next project. To test my..... Listed under: Projects, Robotics – Automation Projects



7-Key Slider/Wheel Tutorial with Synthesizer This is a tutorial for using the 7-Key Slider/Wheel Breakout from Rachel's Electronics. I'll show you how to solder up the header pins for maximum usability. Rachel's has the OT1106 datasheet on their site, and a great arduino library for this breakout. The kit from..... Listed This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT **Read More** under: Sensor – Transducer – Detector Projects, Tutorials





Arduino Watch with Nokia 3110 screen My goal for this project is to make a watch with selectable dials, stopwatch and millidays. This idea started with an Aprils fools prank about metric-time. (http://www.youtube.com/watch?v=K35xG1buyFA) First I wanted to make a metric clock but soon this idea evolved from a metric watch into...... Listed under: Clock – Timer Projects, Phone Projects, Projects



Uber Home Automation w/ Arduino & Pi A few years ago, I became a dog owner for the first time. I didn't like leaving Cody in the kennel alone all day. I had a webcam on him, but I couldn't watch it all day long. What if he was in some kind..... Listed under: Home Automation Projects



Come Home! Connecting Distant Spaces EASILY over Web using Arduino Can you believe that we live in an age where you can touch an object (any object - if it has metal on it) and a light will turn on in your loved-one's space - even if they live in a different city, state, or..... Listed under: Home Automation Projects, Internet – Ethernet – LAN Projects



Simple 2-way motor control for the arduino When I say simple, I don't mean use a speed control. But control the motor directly without any external circuitry. Here's how this came about: I recently was working on an instructable about charlieplexing with an arduino. And I was wondering if the same principle...... Listed under: Motor Projects, Projects



Assembling the 8×8 LED Board Kit These are step by step instructions for assembling the 8x8 LED Board kit from moderndevice.com. I had never played with LED displays before using this kit. I suggest reading through all the assembly steps BEFORE starting to solder because assembly order DOES matter with this...... Listed under: LED Projects



CatGenie: A smart, resettable SaniSolution cartridge The project This project follows on from the excellent work by ScotSEA and his Arduino reset program (see http://www.instructables.com/id/CatGenie-Resetting-a-SaniSolution-Cartridge/). I had never taken my Catgenie apart as Scott did, but had built a small contact board instead. I had previous updated Scott's program to..... Listed under: Security – Safety Projects



My Ninth Project: Robot Arm with Joystick Shield using Arduino Although it is great controlling the robot arm with computer or mobile phone, I think using joystick is also cool, so I've bought a joystick shield and make a new project. This joystick shield is compatible with Arduino. It also support Nokia 5110 LCD module,..... Listed under: Robotics – Automation Projects

23. Beat Sync using an Arduino Beat Sync is a single frequency audio spectrum volume meter. It can isolate around a certain frequency (I choose the bass) and display it on a creative 8 segment LED bar graph. This is meant to be quite simple, yet allowing room for..... Listed under: Projects, Sound – Audio Projects

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24.



Laser Tag Stuffed Animals Ever feel like there aren't enough toys at the intersection of cuddly and terrifying? Wish your stuffed animals could double as weapons? Then I've got the toy for you. These Laser Tag Stuffed Animals easily transform from being a cuddly night light to the world's..... Listed under: LED Projects

25. Arduino and L293D Robot (Part 1) Here is part 1 of the Arduino and L293D Robot. This is part of a series of instructables leading to a Line follower Robot. This is a basic Robot made by controlling two motors via the L293D chip through an Arduino Board. I have done this project in..... Listed under: Projects, Robotics – Automation Projects





Mini BillBoard using Arduino Designing a Mini BillBoard using LED Lights(different colors), Arduino and Bread Board. Thought of creating a mini billboard, that could display my name ("Josh"). This is for one of the build nights (required us to use LED lights). This billboard would blink in..... Listed under: Game – Entertainment Projects, LED Projects



D-Led Shield v1.0 (for monitoring) Good day fellow enthusiast! Here is one of my latest and simplest shield designs for an arduino board. The thing here is, sometimes we have a hard time checking out which I/O pins are LOW or HIGH, especially when we are dealing with LED, motors,..... Listed under: LED Projects



How to Make Musical Floppy Drives using an Arduino My brother posted a video about this on facebook almost a year ago. Some old floppy drives playing Bach's masterpiece Toccata & Fugue and it got me really interested. So I read about it when the author posted a how-to on his blog and did a couple of tweaking...... Listed under: Game – Entertainment Projects, Projects, Sound – Audio Projects



Pimp My Zoomobil using Arduino I recently put together the Playmobil Zoomobil for my kids. As I was busy snapping all the pieces together, I became more and more convinced that this cart had been made to have lights. It's hard for me to believe the original product designers at..... Listed under: Game – Entertainment Projects



Using a Dot Matrix LED with an Arduino and Shift Register The Siemens DLO7135 Dot matrix LED is one amazing piece of optoelectronics. It's billed as a 5x7 Dot Matrix Intelligent Display (r) with Memory/Decoder/Driver. Along with that memory, it's got a 96-character ASCII display set with upper and lower case characters, a built-in character generator..... Listed under: LED Projects, Projects

31.

SYNTHDUINO The synthduino is a fun arduino project to do and as a beginner it is a great way to learn new things about arduino's many features. With only using household items to build the synthduino you will be satisfied with the finishing project and feel..... Listed under: Game – Entertainment Projects



32. Arduino Controlled ATX Power Supply Can a microcontroller control its own power? Well nearly! An ATX power supply, either new or from an old PC, is a great way to power Arduino and other microcontroller projects. That is covered in several 'ibles such as this one. However, because of some..... Listed under: Other Projects, Projects

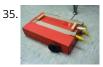




Reading Digital Callipers with an Arduino How to use an Arduino to read the signal from a set of digital callipers and send the reading over USB. Why? This might be useful for accurate position sensing in home made / hacked computer aided manufacture systems. Adds USB functionality to your callipers...... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects



Personalised Word Clock using Arduino Build a unique personalised gift that's cool and reflects the character of the recipient. What's different about this Word Clock is that it is small enough to sit on a bedside desk, displays the recipients name and has personalised messages that appear at different times...... Listed under: Clock – Timer Projects



Arduino String Instrument Sure you can use LDR's, potentiometers and buttons to generate sounds, but what about strings? When I began thinking about an Arduino string instrument, I realized what I wanted to create was a soft potentiometer. I found my inspiration from Hannah Perner-Wilson's Fabric Potentiometer http://www.kobakant.at/DIY/?p=543. Step..... Listed under: Metering – Instrument Projects



Autonomous Paintball Sentry Gun using Arduino Make your own, custom AUTONOMOUS SENTRY GUN! A Microcontroller Contest Finalist and Runner Up Winner. This instructable is out-of-date. For the most recent version of the tutorial, see the website . Cheers! This sentry gun autonomously tracks, aims, and shoots at targets, using: -An airsoft or..... Listed under: Arduino Programmer Projects, Projects



BUGBot – Light Follower Robot using Arduino The figures above shows the basic idea of any robot, where we have some inputs and output devices connected to the brain and some outputs controlled by the brain. In our case we will have the Arduino like the brain. The central Brain, controls all..... Listed under: Projects, Robotics – Automation Projects



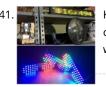
The "all in one box" aquarium feeder using Arduino Step 1: Things you will need the images show you what you need. you will also need (but is not shown in picture soldering iron shrink tubes lighter 5 volt power supply usb cable (to program you're arduino) info on the foamed pvc sheet...... Listed under: Home Automation Projects

39. Dirt cheap Arduino LED light bar This instructable was designed for beginners in mind, but advanced users can easily adapt it to fit their needs and wants. It only uses a few I his website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-but if you wish. ACCEPT **Read More** common components, so you shouldn't have much trouble putting this together. It's a good waste of 5 minutes with..... Listed under: LED Projects, Projects





Intelligent Solar Garden Light using an Arduino- Part 1 I bought a solar powered garden light. The solar panel charges the batteries and when it gets dark the lights (3x LEDs) turn on until it either gets lights again or the batteries run out. It has a small amount of intelligence (turns on when..... Listed under: Battery Projects, Home Automation Projects, Projects



Kickstarter Backer Alert with Stats Scroller, using Arduino Yun The Arduino Yún is a curious addition to the Arduino family. There is a fairly widespread community surrounding the Arduino concept, platform and software. There's another popular community dedicated to hacking and improving inexpensive wireless routers, which often run Linux. The Yún combines the two...it's..... Listed under: Car Projects



Interactive Stereoscopic Installations: visual rupture with the Diplopiascope What is it? This is an ongoing project that i've been working on to see the potential of interactive stereoscopic installations in examining the perceptual process. I use a setup that i've called a Diplopiascope to investigate this. The Diplopiascope has gone through a few..... Listed under: Video – Camera – Imaging Projects



Make a 24X6 LED matrix using an Arduino After making a 8X10 matrix a lot of people asked me about expanding the matrix to some thing bigger, and some wanted to write stuff to the matrix via a PC, so one day I looked at a pile of LEDs that I had leftover..... Listed under: LED Projects, Projects



8×8 LED Matrix Animations using an Arduino For a party we were about to have I wanted a cool light display to use with my new Xmas present - an Arduino Uno. Having looked at the LED matrix's here I wanted a bigger one that I could hang on the balcony. I also wanted..... Listed under: LED Projects, Projects



Arduino-Based Blue Box (Phone Phreaking) History and Story In the 1950s, 1960s, 1970s, 1980s and even up into the 1990s phone phreaking was an amazingly cool way to explore an unknown world of phone switching networks. To "phreak" a telephone switch, can be done by using frequencies, or tones to..... Listed under: Phone Projects



Arduino Combination Door Lock: Lockduino Ready to put a combination lock on your door to keep out intruders? You've come to the right place! In this i'ble I will show yc by step how to make a combination lock for your door! Watch this video of the finished product!..... Listed under: Security – Safety Project Ideas



Serial Servo Controller with Arduino I'm going to show you how to use your Arduino to control up to 12 servos at once with minimal jitter. Using a simple serial interface you can control the position of up to 12 servo channels. Up to 10 snapshot positions can be saved...... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Motor Projects, Projects

48. LED Watch using an Arduino This instructable will show you how to make your own arduino based watch that tells time using a matrix of LEDs. This is my first instructable, so if This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT Read More something is unclear leave me a comment or send a message! I was inspired by all the..... Listed under: Clock – Timer Projects, LED Projects, Projects





DIY a Spelling Game with an Interactive Robot using Arduino Did you hear before about Social Robot? Did you you see the Pepper Robot or libo robot? These kinds of robots that can hear you, understand you and make a social contact with you via sound, facial expressions and body gestures. Social robots have various..... Listed under: How To - DIY - Projects, Robotics - Automation Projects



DinoCalc Version 1.0 (Arduino Pro Mini Protoboard Version) Latest Release: http://code.google.com/p/dinocalc/ Development: https://github.com/WeaselJones/DinoCalc This is a calculator without a LCD that tells you if your math answer is right or wrong, without giving you the answer. This instructable will show you how to make this simple math checking...... Listed under: Calculator Projects



MP3 Interface for Arduino I have added a follow-on to this Instructable: http://www.instructables.com/id/Cheap-and-Easy-MP3-Shield-for-Arduino/ The followon shows you how to design, etch and build a PCB shield to connect the MP3 to the Arduino. Replaces the analog switches with a 74HC244. Single layer board with large surface mount component design. Only..... Listed under: Interfacing(USB - RS232 - I2c -ISP) Projects, Projects, Sound - Audio Projects

52. Ethernet Switching – with Arduino Aim: Switch relays from the ethernet or the internet, using your mobile, tablet or computer with a nice graphical user interface. Update V4.06



Please read the below steps to Step 2 if you are viewing this article for the first time. Please go to step..... Listed under: Internet – Ethernet – LAN Projects

Illumino: EEG hat with Arduino turns brain activity into light Ever wanted to visualize your brain activity in real-time? Move an object on a screen with your mind? EEG devices are fantastic fun and allow you to do such things! This tutorial will show you how to make an illumino: a recreational EEG hat that..... Listed under: Game – Entertainment Project Ideas



Virtual Etch A Sketch The Etch A Sketch: famous, creative, and unique. Unfortunately I have no clue where the one from my childhood is, so I decided to make my own virtual one! Check it out (and my awful drawing skills) below. This Etch A Sketch is quite like..... Listed under: Game - Entertainment Projects

55. ATtiny programmers heing eschulories to any store http://espletence.dwers assunfer velatively anall hesplander af pipt bap ATtogga 348) projector ATtiny 45 or Attiny85 are good choice in terms of its physical size (8-DIP or 8-SOIC) and low power consumption. There are many ways to program it. One of the popular..... Listed under:





TurtleDuino Object Avoidance Robot using Arduino Hello, in this instructable I'll be showing you step by step how to build the TurtleDuino, an object avoidance robot, with an Arduino UNO microcrontroller on board. I designed the TurtleDuino using material from the hardware store (Home Depot) and all the electronics from sparkfun.com..... Listed under: Projects, Robotics – Automation Projects



Home Automation: Drapes using Arduino Hate having to manually open and close your drapes? Hate getting back from work/school and your room is dark and dreary? Do you want curtains that open and close themselves? Then you need Dr. Drape! Dr. Drape is an easy DIY project using an Arduino..... Listed under: Home Automation Projects



Convert a toy piano to work as a midi device and use it with Synthesia Goal of this project: Convert a cheap toy piano to work as a midi device and use it with Synthesia (http://www.synthesiagame.com/) Other programs that use midi inputs can also be used. Approach: The pushbuttons of the piano are used to make a simple pull-down circuit...... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Sound – Audio Projects



Tankbot – Internet Controlled Tank Robot using Arduino Do you remember a game called Tank Wars? This is an attempt to make a physical version of that classic arcade game. You, the player drive an Arduino powered tank and fire a laser at a target. This project uses an Arduino to control a tank..... Listed under: Internet – Ethernet – LAN Projects, Projects, Robotics – Automation Projects



Custom OBD II Gauge in With OEM Look using arduino https://github.com/stirobot/arduinoModularTFTgaugesI built a custom OBD II (on board diagnostics version 2 http://en.wikipedia.org/wiki/On-board_diagnostics) gauge in the clock of my Subaru BRZ (GT86, FRS) and a lot of people wanted me to build them one. Here is how you can build one of your own. My wife..... Listed under: Arduino Car Project Ideas



Garage Genie – Parking & Remote Control using Arduino The Garage Genie Parking & Remote Control is a car automation Arduino gadget. Click on the two images above to see the animated explanation. It aims to do a few things: 1. The "traffic lights" tells you when you've inched your car up close enough...... Listed under: Arduino Car Project Ideas



Guitar Tuner for the Blind (using an Arduino) How to modify a guitar tuner so it can be used by a blind person This build uses an Arduino Pro mini microcontroller, (all code is provided). This project was undertaken for the charity Remap, which provides custom-made equipment for people with disabilities. Summary Begin with..... Listed under: Sound – Audio Projects



An FM Stereo Broadcaster PLL using Arduino I have two good AM transmitters - one I'd built using a single 6888 Tube plus an old KnightKit Broadcaster that I'd refurbished, as well as a high-quality solid state transmitter from SSTRAN that I use to play music over the several antique AM radios I've repaired...... Listed under: Projects, Radio Projects

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AC Arduino dimming circuit THANKS TO CONCERNED VIEWERS, I HAVE LEARNED THAT THIS IS NOT SAFE AND SHOULD NOT BE REPLICATED. SO PLEASE DONT TRY THIS (2) THANKS TO EVERYONE WHO COMMENTED, I LEARNED A LOT I am not an engineer, just an experimenter and hacker and prototyper etc,..... Listed under: Home Automation Projects, Projects



Tiny Altoid Tin Robot With Personality I love robots. Normally the ones I build are quite large and wouldn't fit in your pocket, but for a change of pace I decided I would try something small and fun! This robot is exactly that, and in fact fits inside of an altoids...... Listed under: Robotics – Automation Projects



5×5 LED Cube using Arduino Uno This is a step by step explanation of how to build a 5x5 LED cube using an arduino. I did this project for my undergraduate electronics class and it took me about 2 weeks to complete. Note: Apparently, some of the links for the supplies..... Listed under: LED Projects, Projects



Self-Watering Plant using an Arduino Plants liven up any space by adding a sense of airiness and life. That is - of course - when you don't forget to water them, and they shrivel up and die. I am very bad at remembering to water plants. That is why I..... Listed under: Home Automation Projects, Projects



Froggy World 5 The Coffee Gripper In Froggy World, the amusement park for adventurous plastic frogs, it became necessary to to move the frog from a train car back to the catapult. Because I couldn't know whether the frog would be upright or sideways--and in what orientation--the gripper was a challenge...... Listed under: Home Automation Projects



Dual H-Bridge – Arduino L298 Breakout Board This is my homemade Dual H-Bridge using the IC L298N. For control DC motors or step Motors ao other purposes just like you need. Breakout L298N.ppt1 MB Step 1: Hardware and Materials This is the basic schematic. It works perfectly. A more advanced schematic and...... Listed under: Arduino Android



Interfacing a Digital Micrometer to a Microcontroller We had a project that required connection to a digital micrometer with a data output jack. The idea was to connect a microcontroller to the micrometer, to read the measurements and make decisions based on the readings. The micrometers that we used are made by...... Listed under: Metering – Instrument Projects



Bubble Wall | Interactive, Inflatable Panel Bubble Wall | Breathing Wall Panel System Interactive, Inflatable, Playable Wall Brief Project Description This was an artistic piece installed for a digital fabrication show at the University of South Florida School of Architecture and Community Design. While this brief is specific to this panel,..... Listed under: Game – Entertainment Projects, LED Projects



Big Spectrum Analyzer with Arduino Let's put together a pixel strip with an HL1606, an Arduino UNO and the Spectrum Shield to build a seven bands "large" Spectrum An of simple construction. The Strip used uses the HL1606 controller to allow direct management of each of the LEDs. The chip...... Listed under: Game – Entertainment Projects, Home Automation Projects, Projects

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Wii Nunchuk Controlled Model Train using Arduino Using an Arduino microcontroller, an Adafruit motor shield, and a Wii Nunchuk, you can create a intuitive, programmable, model train controller to run your layout. Amaze your friends. Entertain your kids. Not quite DC, not quite DCC. You're headed for the hacker lands of PWM...... Listed under: Game – Entertainment Projects, Projects



A Facebook-Connected, Arduino-Powered Music Party Music party is a new way to listen to music with others. By tapping an RFID/NFC device that is synced to a Facebook account on an Arduino RFID reader shield and sending that unique ID to Music Party server using the Arduino WiFly shield, we..... Listed under: Internet – Ethernet – LAN Projects, Sound – Audio Projects



DIY Arduino Board Water Meter Working with the interaction design team, a bunch of us at Teague have been tinkering with measuring water, analyzing usage data in realtime to affect behaviors, and storing it to see patterns over time. At the heart of the exploration was a need to cheaply measure water..... Listed under: How To – DIY – Projects, Metering – Instrument Projects, Projects



Arduino LCD Metronome Connecting the LCD The first step is to wire up the LCD. The HD44780 has 16 pins: Pin 1 - Vss Pin 2 - Vdd Pin 3 - Vo Pin 4 - RS Pin 5 - R/W Pin 6 - E Pin 7 - DB0...... Listed under: LED Projects



Self Balancing Segway Instructabot [box color="#985D00" bg="#FFF8CB" font="verdana" fontsize="14 " radius="20 " border="#985D12" float="right" head="Major Components in Project" headbg="#FFEB70" headcolor="#985D00"] Supplies: 1. Arduino: I used an Uno 2. 7.2v battery 3. Set of motors: Parralax's 7.2v motor set http://www.robotshop.com/parallax-7-2v-motor-bracket-wheel-kit-pair.html 4. Analog accelerometer http://www.robotshop.com/sfe-3g-tripleaxis-accelerometer-breakout-board-adxl335-2.html 5. Sabertooth 5X2 motor controller http://www.robotshop.com/productinfo.aspx?pc=RB-Dim-19&lang=en-US 6...... Listed under: Game – Entertainment Project Ideas, Robotics – Automation Project Ideas



Garduino-Automated Gardening System using Arduino This instructable is a guide for setting up an automated gardening system using an arduino and other cheap electronic parts. It allows sustainable gardening by using sensors to determine soil moisture, as well as a webscraper to determine future weather. It uses this information to save water by only..... Listed under: Home Automation Projects, Projects

79. Self-Contained 7x7x7 LED Cube LED cubes are true 3D displays that work by lighting up points in a 3D lattice of LEDs. On the 3D display you can produce some



truly mesmerizing animations. This Instructable will walk you through creating an LED cube for yourself that is completely self-contained and powered...... Listed under: LED Projects



Burning the Bootloader on ATMega328 using Arduino UNO as ISP I had one remote controlled project that needed an Arduino running 24/7 but I didn't want to leave my \$32 Arduino UNO, so I decided to buy some pieces and created my own Arduino. The most important part was buying the microcontroller. These were my..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects

81.

How To Make A Board Game Using Arduino In this Instructable, we'll teach you how to create your own "Would you rather... " board game using conductive paint, an Arduino microcontroller, and some electronics components. Players take turns moving along the game path as directed by an electronic dice roll.

Along the way,...., Listed under: Game – Entertainment Projects, Projects, This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT Read More





FuzzBot The FuzzBot is an awesome, fast, fully autonomous small Arduino robot that everyone loves!!! It uses the compact Pololu ZumoBot Chassis kit for a great drive system, and uses a Parallax Ping sensor to sense proximity, to make the FuzzBot fully autonomous. I like to..... Listed under: Robotics – Automation Projects



Arduino camera Lens Controller My Lumix GH2 Micro Four Thirds camera not only shoots fantastic high definition videos, but with inexpensive adapters I can use it with older manual lenses that are cheap and often very high quality. I shoot a lot of performance videos for my daughter's dance studio, and I...... Listed under: Projects, Video – Camera – Imaging Projects



Capacitive touch Mood light using Arduino This instructable is a quick write-up of my experience creating a multifunctional moodlight. Some basic knowledge of electronic circuits is expected. The project has not yet finished, some adding functionality and tweaking has to be done but it is already functional. If you guys are..... Listed under: Game – Entertainment Projects, Home Automation Projects, LED Projects, Projects



Arduino-plex 2.0: Modular Plexiglas Arduino Work Surface Last year I needed a board that I could stick my breadboards to, that would also securely hold my Arduino. I us some Plexiglas I picked up at Skycraft in Orlando and I glued everything together with Crazy Glue. This worked well, but it didn't..... Listed under: Development Board – Kits Projects



The morse code generator by a PS\2 keyboard using Arduino Hi, all! Today I' m trying to explain you my last project: "The morse code generator by a PS\2 keyboard" I' ve used an PS/2 keyboard to send input to my Arduino board (like described in here) and transform it in morse code that activate...... Listed under: Arduino Programmer Projects, Projects



Nokia LCD & Sensors using an Arduino Arduino: Nokia LCD & Sensors PROBLEM: Making my Arduino, a Temperature-Relative Humidity sensor and a Nokia3310LCD screen work together. Now, I'm a Lazy Old Geek, so what I wanted was an Arduino kit that would take shields. This Freeduino was the cheapest that I could...... Listed under: LCD Projects, Phone Projects, Projects, Sensor – Transducer – Detector Projects



Program an ATtiny with Arduino Follows are directions for programming the ATtiny microcontrollers using the Arduino IDE. In plain English, this is how to program 8-pin Atmel chips as you would normally an Arduino. This is cool because the ATtiny is tiny, and - well - this allows you to..... Listed under: Arduino Programmer Projects

89. Stupid Simple Arduino LF RFID Tag Spoofer RFID tags are all over the place. They're used in building access control systems, passports, inventory tracking . . . This instructable This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. . . . ACCEPT. **Read More** will show how you can use an Arduino and new simple components (wile coil, transistor, capacitor, resistor) to make a device...... Listed under: Projects, RFID - NFC projects





Ultrasonic Tape Measure using Arduino Have you ever wanted an ultrasonic tape measure, like this Stanley? (See picture). Well, I have but then I am a Lazy Old Geek. I don't really need one but I thought I'd try to make one. And naturally, I thought of an Arduino. August..... Listed under: Metering – Instrument Projects, Projects



Interface Arduino to MySQL using Python Here's a brief tutorial that should get you up and running interfacing your Adruino with a MySQL database. For the sake of this tutorial, I am assuming you know how to set up and use MySQL. This tutorial does not require much Python experience, but..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Internet – Ethernet – LAN Projects

92. LDR Robot using an Arduino LDR Robot with IR and a Servo The LDR/IR Robot is designed to seek out light and avoid obstacles. The robot uses the Light Dependent Resistor to seek out light and the Infrared Sensor to detect and avoid objects in its path. The following are..... Listed under: Projects, Robotics – Automation Projects





Jeopardy Ring-in Buttons with Built-in Rules using Arduino There are several good Jeopardy/Game Show lockout buttons/buzzers, but none incorporate the timing rules of Jeopardy. I am learning about the Arduino and I thought that this would be a great project to practice with. The rules include a question reading period with no timeout..... Listed under: Game – Entertainment Projects, Projects



Frankenstein Laser Engraver This Frankenstein Laser Cutter was built out of an old scanner and printer. The whole thing evolved around the instructable of Groover and his 'Pocket Laser Engraver'. This is a Making-Of. Although a lot, if not everything, of the mechnical construction requires ingenuity I tried...... Listed under: Metering – Instrument Projects



Low cost Ethernet shield with ENC28J60 using Arduino Economical alternative to original Arduino ethernet shields, allows data rates up to 10 Mbps and is achieved with a traditional assembly components. One of the most interesting shield that you can mount on the Arduino platform is certainly the ethernet shield, because enable numerous networking...... Listed under: Internet – Ethernet – LAN Projects, Projects



Pan & Tilt Servo bracket controlled by Arduino Hi, in this instructable i am showing you how to build a very nice and very sturdy pan & tilt turret for your rc / arduino projects. (Please don`t judge my english grammer etc. i`m from holland) The things that you need for this project..... Listed under: Other Projects, Projects

97.

The Octo-phonic Synthesizer The Octo-phonic Synthesizer is a polyphonic synthesizer that is able to produce eight tones that in the end, creates a musical scale. Inspiration for this creation came from this project. I like to think of it as an electronic organ. I used the core foundation of blinkyblinky's idea,..... Listed under:

Sound – Audio Project Ideas This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT Read More





Clock with Tics (presentation prototype) using Arduino Clock with Tics is an Arduino-powered 24-hour digital clock that displays expletives at random intervals. A clock 'ticks'. A 'tic' (note the different spelling) can be a mental disorder and can manifest itself in a number of ways; most seriously, someone suffering from "Tourette's Syndrome"..... Listed under: Clock – Timer Projects, Projects

99. Cheap lcd screen for the Arduino We have used the pda with a desktop computer (robot) and with the Nslu2. Here we are going to use an old pda with serial port.to act as an lcd. Everyone either has one or knows someone who has an old pda that they do..... Listed under: LCD Projects



100.

Starting with robotics (Arduino) Starting with robotics can be hard, if you don't know where and how to start. Best way to start is to make mobile robot. In this step-by-step we will show you, how to make cheap robot with parts available in your local store and household...... Listed under: Robotics – Automation Projects



Compact 3-in-1 Stripboard DIYduino with Integrated Sensor and L298N Motor Shield I am presenting a compact design of a stripboard Arduino board (DIYduino) that includes a 2A motor driver and has additionally the functionality of a sensor shield. The 2-channel version cost approximately \$29.43 and is more affordable compared to \$39.00 for a commercially available system...... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Motor Projects, Projects, Sensor – Transducer – Detector Projects



Rainbow Word Clock using Arduino At long last I have managed to finish the Rainbow Word Clock! Once again, this one was inspired by Doug and his creations http://www.instructables.com/id/The-Wordclock-Grew-Up/ I have a fixation with RGB LED's at the moment and I wanted to do something a little different. So, while it..... Listed under: Clock – Timer Projects, Projects



Persistence of Vision Wand using Arduino Persistence of Vision (POV) Wands are a fun way to create interesting long exposure photographs and light displays. The wand consists of a single row of LEDs controlled by an Arduino Uno. When the wand is turned on it appears to be flickering in a..... Listed under: Game – Entertainment Projects, Home Automation Projects, Projects



Big Ball Maze Game using Arduino This project was the result of an urge to contribute something to the Creative Games section of my kids' elementary school fair. The kids loved it for it's simple old-school game aesthetic mixed with Wii-style and Kinect-style video game control. It's a spin-off project of..... Listed under: Arduino Android, Internet – Ethernet – LAN Projects, Projects

105. Batgirl Birkin Bag What a girl wants. What a girl needs. What's more exclusive and has more cachet than scoring a Birkin bag? Pow!!! A Batgirl Birkin bag! Holey Haute Couture, Batman! Yes, you too can knock off a version of this famous bag. Okay, even mine started...... Listed under: Home Automation Projects, Phone Projects, Sensor – Transducer – Detector 萨克曼代曼bsite uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT Read More





Internet Devices for Home Automation using Arduino This instructable shows the principles involved in making devices to control home automation over the internet. We're going to construct a device (or several of them), that talk to each other over the internet to control lights, motors for curtains/blinds, power sockets etc. In contrast..... Listed under: Home Automation Projects, Internet – Ethernet – LAN Projects, Projects



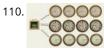
Arduino powered Solar Battery Charger The following design is for a Solar battery charger ran by an Arduino Nano. It can handle a standard lead acid 12V battery, like for a scooter or a car. Furthermore the design has been tested and runs with 90% efficiency under 70°C (158°F). It..... Listed under: Battery Projects, Solar energy projects



Code generator for custom Android or Arduino menus Introduction This is the first of two instructables that make up a complete customizable Home Automation for Beginners example. See DIY Home Automation for Beginners for the second part. It is aimed at the absolute beginner. If you can handle a sharp knife without cutting...... Listed under: Arduino Android



Programmable Temperature Controller + Hot Plate Heating things up is one of the most performed tasks in a lab. Quite a lot of times it is not enough to simply hold something at a certain temperature, but the rate at which something is heated and for how long is just as..... Listed under: Arduino Programmer Projects, Metering – Instrument Projects, Temperature Measurement Projects



DCF77 master clock MK2 Features Arduino 328 Microprocessor is used to decode and display Time & date from the DCF77 "Atomic" Clock in Mainflingen near Frankfurt Germany The DCF77 signal is decoded using the fantastic new DCF77 library written by Udo Klein meaning the clock stays in sync and...... Listed under: Clock - Timer Projects



Arduino-powered LED Clock A fun, simple LED clock, that will give you the time to the nearest half hour using single-color LEDs. Parts needed are as follows: Arduino Nano 400 tie-point Breadboard Ribbon Cable DS1307 RTC IC 32.768 kHz Crystal (12) 10mm LEDs (12) 180 Ohm resistors (2)...... Listed under: Clock – **Timer Projects, LED Projects**



Arduino Programmable Constant Current Power Resistance Dummy Load Glad to see you have arrived on this page to learn how to build a programmable constant direc current dummy load. This load will allow you to draw a set current from any source. This load can also be set to a constant resistance or..... Listed under: Arduino Programmer Projects

113.

Network Time Protocol (NTP) Client using Arduino In this example, you will use your Ethernet Shield and your Arduino to query a Network Time Protocol (NTP) server. This way, your Arduino can get the time from the Internet. Circuit The Ethernet shield allows you to connect a WizNet Ethernet controller to the Listed under: IntEmiseweBthternestes Look Regiects in Projectes your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT Read More





Drive by wire go kart using Arduino I just got a new go kart engine, i went from 6hp to 10hp. This new kohler engine I got I think was not built to put on a go kart, so I had some trouble finding a way to attach the gas petal. Well..... Listed under: Car Projects, Motor Projects



Programming Arduino Wirelessly The Arduino system offers an easy and open-source method for programming microcontrollers. Normally this means using a serial cable or USB cable attached directly to the microcontroller project. But what if your project is floating in a weather balloon, glued to the bottom of a swimming pool...... Listed under: Arduino Programmer Projects, Projects



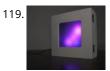
Put a Cylon in it! Last year the comedy sketch show 'Portlandia' made fun of an arts and craft trend, where craft artists would take ordinary items and 'put a bird on it'. I fell victim to a similar trend in the geek crowd: Take an ordinary silver item and..... Listed under: LED Projects



Water Flow Gauge using Arduino Measuring the consumption of a resource that has units by volume can be more tricky than it sounds. Use of resources such as water, gas, and even electricity is typically measured by gauges that determine either instantaneous flow rate or cumulative volume over time. Both..... Listed under: Other Projects

118. Modern RGB LED Clock using Arduino As hard as it might be to believe, I had never built an electronic clock of any kind. I've always thought electronic clocks were passe and not worth the time to design and build one. In addition, I thought that all interesting electronic clocks designs..... Listed under: Clock – Timer Projects, LED Projects, Projects





Low resolution display done right A resolution of 8x8 pixels may not sound like enough for anything interesting, but with the right setup, it is possible to create beautiful, complex animations and even add some interactivity. In the next pages I will detail the steps needed to build the low-res..... Listed under: LCD Projects



64 pixel RGB LED Display – Another Arduino Clone This display is based on an 8x8 RGB LED Matrix. For testing purposes it was connected to a standard Arduino board (Diecimila) using 4 shift registers. After getting it to work I permatized it on a fabbed PCB. The shift registers are 8-bit wide and...... Listed under: LED Projects, Projects

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RFID cat door using Arduino Intro: RFID Cat Door This is a cat door /flap that can only be opened by the animal that wears the appropriate RFID tag. Arduino controls the process. It features a custom made antenna large enough to function as a gate, which makes it easy..... Listed under: Projects, RFID - NFC projects



Automatic Multi-Photo Taker (Photobooth Style) This is a tutorial on how to program your DSLR camera to take photos photobooth-style. It's a simple Arduino setup that allows you to take continuous photos with 3-second delay intervals. This was built for a college electronics project. A motion sensor detects motion in..... Listed under: Video – Camera – Imaging Projects



How To Smell Pollutants using an Arduino This Instructable explains how to use a gas sensor with your Arduino. This lets your Arduino smell (and hence you program responses to) overall gas levels for a variety of nasties, including ethanol, methane, formaldehyde, and a bunch of other volatile organic compounds. My cost..... Listed under: Projects, Sensor – Transducer – Detector Projects

124. Gas detector / indicator (USB powered) with arduino ArduSniffer This Instructable shows how to build a gas detector / indicator using an arduino. The finished product is USB



powered and displays the amount of detected gas on a led display. In this design the reset button on the arduino is also working. This...... Listed under: Projects, Sensor – Transducer – Detector Projects



BoB the BiPed Did you buy an arduino after seeing all the cool instructables and now you tired of just making LEDs blink? Are you envious of all the cool walking robots people are building but don't have the experience or cash for all of those servos and expensive brackets?..... Listed under: Robotics – Automation Projects

126.

Arduino Programming With Atmel Studio 6.0 How to import the compiled Arduino IDE libraries into Atmel Studio 6.0 using a program written by Omar Francisco. This will allow you to use the feature rich programming environment of Atmel Studio to program the Arduino Uno. Other Arduino boards such as the Mega..... Listed under: Arduino Programmer Projects, Projects



How to Control arduino by bluetooth from PC I wanted to make it possible to control an arduino board from my phone. So that I could control other devices. the easiest way seemed to be using bluetooth. but when I received the parts needed I found it want quite as simple as I..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects, RTOS – OS Projects

128. DIY Motion Sensor Alarm System Are you constantly being scared when people sneak up behind your back? Do you have bad hearing and can't hear people approaching you? Do you wahts were the were the second and the second approaching the second approaching to the second approaching the second approaching to the second approaching the second approaching to the second approaching





Android talks to Arduino board This project slightly modifies the Google Android sample app called "Bluetooth Chat" so you can type a message in the Android app and that same message will appear on an LCD attached to an Arduino Uno. Functionality: Android talks to Arduino 1. Run the Android..... Listed under: Arduino Android, Internet – Ethernet – LAN Projects, Projects

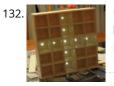
130. Motion Triggered Fog Machine using an Arduino Fog machines can be unruly beasts. Especially the non-professional models you buy for halloween. With low duty cycles, causing



massive amounts of fog when you don't need it, and no fog when you do. Wouldn't it be nice to have fog only when people come...... Listed under: Other Projects, Projects



The Boss Box Bot Welcome to the Boss Box Bot instructable, or as we like to call it, the Bo-Bo Bot. The Bo-Bo Bot was designed to use extremely low cost materials to allow people to construct a robot without high-priced kits. Our Bo-Bo Bot will be made using..... Listed under: Robotics – Automation Projects



Daft Punk Coffee Table 5×5 LED Matrix using an Arduino Yes, I know this has been done before, but I wanted to build my own, using as few parts as possible. I built this as a table top or wall mount model, but it can be scaled up to make a coffee table. I built..... Listed under: Home Automation Projects, LED Projects, Projects



Capacitive-Touch Arduino Keyboard Piano Using only an Arduino, a few resistors, a buzzer, and some bits of aluminum foil, you can create your own touchsensor piano keyboard in just a few minutes! Using an Arduino Uno, you can create a piano with up to 18 keys; or with an..... Listed under: Development Board – Kits Projects, Sound – Audio Projects



Arduino MIDI-in shield This instructable shows how to build a shield to connect devices that send MIDI signals (e.g. a masterkeyboard) to an Arduino. The basic schematic is derived from: http://www.arduino.cc/cgi-bin/yabb2/YaBB.pl?num=1187962258/ Step 1: The schematic Basically the schematic is just an optocoupler with some resistors to decouple the..... Listed under: Projects, Radio Projects



Arduino Servo Basic Code In arduino projects, you might add servo to your projects. This short tutorial, show you the basic how arduino and servo works together. Instruction; 1) Connect all jumper wire as shown in diagram. 2) Connect the signal wire from servo to digital pin 9...... Listed under: Motor Projects, Projects



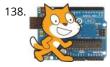
Arduino EMF Detector Here's a small, quick project you can do with an arduino, the EMF Detector! Step 1: Circut All you need for this project is 10- 330 ohm resistors 10- LED's 1-3.3m resistor 1-Solid core wire (this will serve as the probe) breadboard, wires, battery &..... Listed under: Projects, Sensor – Transducer – Detector Projects

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137. Arduino I2C and Processing As promised, this week brings another communications tutorial! In this video, we'll use both the serial and processing knowledge that we gained last



week, plus an I2C enabled temperature-sensing IC. [box type="note" color=" #202020 " bg="#ffbb00 " font="verdana" fontsize="14" radius="20 " border="#000" float="right" head="Attributes"]Thanks to..... Listed under: Other Projects, Projects



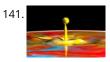
Scratching with Arduino MIT has developed a fantastic visual programming language called Scratch. It is also an amazing learning tool for children, because it is simple, cute, and by providing interaction with the real world by a board called "Scratch Sensor Board". This Instructable shows the development of a shield...... Listed under: Projects, Sensor – Transducer – Detector Projects



Build Your Own Arduino Setting up an Arduino on a breadboard has become a process I have grown to love. Within a few minutes you can have a fully working Arduino platform to work with as you will see in this tutorial. There have been several occasions when I..... Listed under: How To – DIY – Projects, Projects



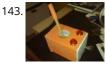
Arduino Morse Code Shield Morse code was the breakthrough that made possible long-distance communication in the era of the telegraph. The code represents alphanumeric characters by short and long intervals of signal -- those familiar dots and dashes. For many years passing a Morse code test was a prerequisite..... Listed under: Ideas, Interfacing(USB – RS232 – I2c -ISP) Project Ideas



High Speed Photography With this device you'll be able to: take pictures from anything you can sense or detect: - movement - sound - ... You don't need to modify your camera or flash for this. It's compatible with the old High Voltage flashes and the new TTL..... Listed under: Sensor – Transducer – Detector Projects, Video – Camera – Imaging Projects



3 wires interface for LCD display using Arduino This post is based on the work made previously by tomek in wiring LCD displays using 4 bits. The basic idea is to group the 7 pins that are needed to drive the LCD in only 3 using a shift register. This is a cheap..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, LCD Projects, Projects



Cheap working homemade arduino joystick Hello everyone! Today I present you : Arduino Joystick! One day I was checking the inside of old joystick. System wasn't that hard to understand, so I thought of making my of system. The whole build is made only by me. I didn't check the..... Listed under: How To – DIY – Projects, Projects

144. Artoo [R2] (ATtiny2313 Wall Avoiding Robot) Since I had a lot of ATtiny2313s lying around I wanted to do something cool with them, I thought for a while and then decided to make a simple wall avoiding robot with the ATtiny2313, an ultrasonic sensor and 2 motors. Its an easy to..... Listed under: Robotics – Automation Projects





Pet Curfew: An Arduino Controlled Pet Door The Problem: You want to restrict the time when your pet is allowed to go outside. This could be because the neighborhood is not safe for your cat or small dog at night (marauding coyotes comes to mind). But you would like your pet to...... Listed under: Home Automation Projects, Projects

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Garage Door Opener with iphone using Arduino What do I need to start? The hardware requirements to start is: *Note: where can I purchase the material with all the components to build myself the system: http://iwup.altervista.org/shop/reference_list.pdf 1.-) Arduino UNO with USB cable 2.-) Ethernet Shield Arduino 3.-) Relay (for arduino 5 V)..... Listed under: Home Automation Projects, Interfacing(USB – RS232 – I2c -ISP) Projects, Phone Projects, Projects



R/C LEGO® Car Redux After I built R/C Lego Car, that used hacked motors and motor housings from the toy Car and toy R/C cars. I realized most of the parts from that toy R/C car that I took the motor out of became wasted. This way was not very...... Listed under: Game – Entertainment Projects



Hercules: The Motion Controlled Android Robot using Arduino When I was in the 8th grade, I was intrigued while playing the motion games on Nokia 5800. I was thrilled, how I could control the racing car by only tilting the phone. I used to dream of making this same car in the real..... Listed under: Arduino Android, Internet – Ethernet – LAN Projects, Projects, Robotics – Automation Projects



2-Player Pong Game with Arduino Uno Classical Pong game implemented on an Arduino Uno using a PCD8544 LCD screen which is better known as the Nokia 5110 screen. Player bars are controlled by a potentiometer for each player. If you want the bar to go left, just turn the potentiometer left...... Listed under: Game – Entertainment Projects, Projects



James – Your first Arduino Robot Edit: Thank you so much everyone for voting for James in the Toy Contest! He got first place and I won a \$500 Shapeways voucher! Expect to see more robot instructables from me in the future! 😄 So you want to make a robot? Don't..... Listed under: Robotics – Automation Projects



Build a transistor circuit board for controlling Air Conditioner remote control with Arduino I was supporting a group of student on their graduation project. One of the difficulties they faced was on controlling an A/C unit with Arduino microcontroller. The first experiment we tried to work it out was by record the A/C remote control beam signal for..... Listed under: Home Automation Projects, Projects



uDuino: Very Low Cost Arduino Compatible Development Board Arduino boards are great for prototyping. However they get rather expensive when you have multiple concurrent projects or need lots of controller boards for a larger project. There are some great, cheaper alternatives (Boarduino, Freeduino) but the costs still add up when you need many..... Listed under: Development Board – Kits Projects, Projects



Mini Arduino environment monitor ** UPDATE – Added RTC *** This is an Example of how you can use the Arduino to monitor various environmental parameters And display them on a LCD screen. Note: I Added a Real Time Clock!! To see the steps, added parts and Sketch I added new steps.. Step 1: Parts List..... Listed under: LCD Projects



Micro LASER Show with a CD Lens Mechanism using Arduino Hello! This is the cheapest and easiest way to make a two-dimensional laser show projector. It uses just one pivoting mirror, powered by the focusing mechanism from a CD or other optical drive. They said it couldn't be done, but Ljudmila's skunkworks GRL research facility...... Listed under: Ideas, Interfacing(USB – RS232 – I2c -ISP) Project Ideas

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Stargate LED Lighted Necklace Ever need to have a Stargate handy? You can wear one around your neck and have it at the ready. Ears starting to bleed from the volume of the music at the club or that Euro-chic clothing retailer outlet? Activate the Stargate to jump to..... Listed under: LED Projects



Twitter Mood Light using an Arduino How's the world feeling right now? This box tells you. Powered by: an Arduino, a WiFly wireless module, an RGB LED, Twitter.com and a 9v battery. I'm a news junkie. I want to know everything that is going on in the world as soon as it happens. I want to wake up and...... Listed under: Home Automation Projects, LED Projects, Projects



Bootload an Arduino with a ZIF Socket Bootloading an Arduino with a ZIF socket allows you to easily program a lot of chips at once without worrying about mangling the pins. The reason for this is that ZIF stands for "zero insertion force," and as the name implies, ZIF sockets don't require..... Listed under: Projects, RTOS – OS Projects

158. Designing and building an synthesizer with Meeblip and Arduino, added videos! For my internship at Create Digital Music/Meeblip I've created quite a fun little synthesizer. This



thing is meant to be more flexible than other synthesizer by making it completely independent; it is battery powered, has its own amplifier/speaker and is controlled by a manually operated sequencer. Inspiration..... Listed under: Sound – Audio Projects



Arduino V-USB / HID 14 channel data logger UPDATE: Please see Addendum 2 at the end of this article for an Excel automatic logging implementation. There are several good articles on Instructables about building your own Arduino. Depending on your horde of electrical parts, you may be able to build an Arduino clone..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects



Resistor Color Code Calculator with Arduino This is a 4 band Mechanical Color Code Resistor Calculator, The idea of making this Mechanical Resistor came when I accidentally dropped my box of resistors and all resistors (1300 of them) got mixed up. ooops! . Thank god there's an APP for that, So..... Listed under: Calculator Project Ideas

161.

How to use a 1602 16X2 LCD display with Arduino, TI Launchpad, and standalone MSP430 video instructions I show how to use a standard 16X2 LCD display in three different use cases. 1. With an Arduino Uno 2. With a TI Launchpad MSP430 running Energia 3. Directly on a breadboard on an MSP430G2553 running Energia This LCD display is low cost -..... Listed under: LCD Projects.



The Arduino Internet Gizmo The Arduino Internet Gizmo is a USB, Arduino, and RFID device for web surfing. The gizmo works by placing an RFID tag on the top of the gizmo. The gizmo reads the RFID tag and sends the tag number via USB to a program running..... Listed under: Internet – Ethernet – LAN Projects, Projects

163.

Arduino Motors and Transistors This week, we'll finally be using the Arduino to control some motors! First up, we'll control a standard DC motor running off a 9V battery with the help of an NPN transistor and a PWM (Pulse Width Modulated) signal from the Arduino. [box type="note" color="..... Listed under: Motor

Projects, Projects, This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT Read More



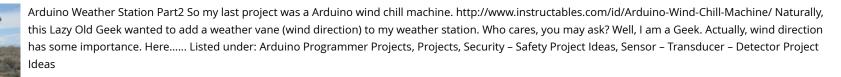
164. Oscilloscope / Logic Analyzer using Arduino One of the frustrating things about developing and debugging electronic circuits is that you can't look inside the circuit to see what is happening. Even with a circuit laid out before you on a workbench and powered up it may seem like you're in the..... Listed under: Other Projects





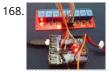
Digital Book Cricket Game with ATtiny 85 using Arduino The project described here is a digital implementation of "book cricket game" which Indian students normally use to play in their childhood time. The heart of the project is 8 bit MCU from AVR family called ATtiny85. ATtiny85 are small and cheap microcontrollers which are..... Listed under: Game – Entertainment Projects, Projects







Interactive Arduino Powered Coffee Table One quick fore note: this is my first Instructable and my first large Arduino project, so if you see any stupid errors or have an idea of how things could be done better, then please let me know. Now that that's out of the way I'll begin, I..... Listed under: Game – Entertainment Projects, Home Automation Projects, LCD Projects, LED Projects, Sound – Audio Projects



Larson Scanner with Relay Module using Arduino This time I'll show how I used an Arduino to control a relay module with eight channels. Arduino in offers several advantages such as: - Open source; - Easy programming; - You can assemble your own board; - Is supported on various forums on the..... Listed under: Other Projects, Projects, Sensor – Transducer – Detector Projects



Ultrasonic Combination Switch using an Arduino Time for a follow-up to the Single Button Combination Lock by creating another oddball type of switch/lock. To activate this switch we make use of a Parallax Ping))) Ultrasonic sensor, an Arduino-style board and some other hardware – to make a device that receives a four-number code...... Listed under: Medical – Health based Projects, Projects



Arduino Street Traffic Light – Breadboard Edition Build a simple Arduino powered Traffic Light with us! This instructable is meant to walk you through almost every step, but there are a few assumptions. Read over the intro and the first step to make sure you are fully prepared! This is the breadboard...... Listed under: Car Projects, LED Projects, Projects

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Arduino SD Cards and Datalogging This is my first in a series of more advanced Arduino tutorials. [box type="note" color=" #202020 " bg="#ffbb00 " font="verdana" fontsize="14" radius="20 " border="#000" float="right" head="Attributes"]Thanks to Jeremy , for this articles[/box] Now that we've covered the basics in tutorials 1-10 (you have watched them..... Listed under: Metering – Instrument Projects, Projects

172.

Introduction to Packet Radio and Arduino Controlled LED Strips This time on the show we continue coverage of Toorcamp 2012 - the American Hacker Camp. This time Darren speaks with Rob Eby about packet radio as an extension of the Internet. Plus what could be better than flexible individually addressable RGB LED strips? %1..... Listed under: LED Projects, Projects, Radio Projects



Arduino Controlled Digital Window Sticker A bumper-sticker sized L.E.D. matrix that displays images in sequence from an SD card, to produce an animated sign or "window sticker." Arduino controlled! Also includes Windows, Mac, and Linux code for converting .xbm image files into Digital Window Sticker files. Perfect for a shop...... Listed under: LED Projects, Projects



Robopod the Arduino Powered Robot Robopod is a simple arduino robot that uses antennas to detect obstacles. Robopod's motors are controlled by an H bridge and powered by a nine volt battery. Robopods circuit is based on a breadboard for easy modification. Step 1: Tools and Materials Material Arduino...... Listed under: Robotics – Automation Projects



Turn your Arduino into the best gift of all Please vote for me in the Holiday Gift contest and the Make it Glow contest! First, this started out as a gift, and not an instructable. So please excuse some hand waving here and there as I do not have any pictures of the etching and drilling portions. Second,..... Listed under: Game – Entertainment Projects, Home Automation Projects, Projects



TSA Zombie Scanner Security Wand Not even Zombies are exempt from a good pat-down. Scanner security wands are used at the most exclusive nightclubs and venues. Does not detect metal to indicate a presence of weapons but will indicate the lack of a soul which means a more rigorous body...... Listed under: Security – Safety Projects



Android-Controlled Pneumatic Cannon Powered By Arduino Every summer, Qualcomm hosts a Battle of the Schools competition, which gives employees the opportunity to represent their home universities. This year, entries were to be homemade contraptions, and they were judged according to how cool they were perceived to be. Virginia Tech's cannon project..... Listed under: Arduino Android, Internet – Ethernet – LAN Projects, Projects



IR Remote Agent using Arduino Remote control is almost a standard accessory for most home applications, like TV, Hi-Fi, air conditioner and so on. Though remote control brings us leisure, when you really need it but have completely no clue where it is, or which one it is, you have...... Listed under: Arduino Android, Internet – Ethernet – LAN Projects, Projects



Making Music with Makeblock Makeblock is an aluminum extrusion based construction system that provides an integrated solution for aspects of mechanics, electronics and software design. With Makeblock you can make professional robots, toy machines or even art-ware. It's super easy-to-use and helps bring your creations to life. The only..... Listed under: Sound – Audio Projects

180. How to use an array with Arduino This variation on the For Loop example shows how to use an array. An array is a variable with multiple parts. If you think of a variable as a cup that holds values, you might think of an array as an ice cube tray. It's like a series..... Listed under: How To – DIY – Projects, Projects

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Reading RFID Tags with an Arduino In this project, you'll learn to read an RFID tag using the Innovations ID-12 reader and an Arduino Duemilanove. Step 1: Let's Get Started! We'll be using the ID Innovations ID-12 to perform the task of reading an RFID tag. At a minimum, it requires..... Listed under: Arduino RFID Project Ideas, Ideas



Driving two Nixie tubes with an Arduino via a shift register and two SN74141s Nixie tubes are really cool looking and are becoming quite popular for their 'retro' look. Although there are a number of tutorials out there on using nixie tubes and some nice pre-packaged units (see these nice ones from ogi lumenand ArduiNIX) I hadn't seen a simple tutorial..... Listed under: Development Board – Kits Project Ideas



Play a Melody using the tone() function with Arduino This example shows how to use the tone() command to generate notes. It plays a little melody you may have heard before. Circuit image developed using Fritzing. For more circuit examples, see the Fritzing project page Connect one terminal of your speaker to digital pin 8 through..... Listed under: Projects, Sound – Audio Projects



Arduino Web Enabled RGB Lighting I just happened to see some large strips of LED lighting when I was picking up some parts at Maplin which were on sale (if I remember correct they were around £12 per approx. 2m strip) however the controller/driver was still around £40, so I..... Listed under: LED Projects



Programming a ATtiny2313 with Aceduino What is an ACEDUINO? It is the Philippine Arduino clone. See pic 2 and 3. Quote from Fall Electronics: If you have already tried y have found out you can't use the ATTiny chips in Arduino. This is because it doesn't have the cores for...... Listed under: Arduino Programmer Projects, Projects



Make a Mini LED Siren powered by Arduino This is one of the first projects I have made with Arduino. It's a little siren with a LED that fades and blinks on and off. It demonstrates basic use of LEDs and speakers. Also check out this article: 8-Pin Programming Shield Constructive criticism is..... Listed under: Arduino LED Project Ideas, Ideas, Sound – Audio Project Ideas



Simple 18dof Hexapod, Arduino nano (optionally with pololu maestro) Hello, Here is a simple hexapod that can be built by hand very quickly. The mechanical design is not great, but it is very much in the KISS (keep it stupidly simple) style and should be doable in a weekend for builders of novice to..... Listed under: Other Projects

188.

A watering controller that can be home networked using an Arduino A couple of weeks ago, I published a great little controller module that provided 6 relays able to be controlled from a computer via a network. After I published it, I got to thinking that the same basic design, with a couple of changes could..... Listed under: Hornis Avebsite ion & geotigentiation of the provided of the provided form a computer via a network. After I published it, I got to thinking that the same basic design, with a couple of changes could...... Listed under: Hornis Avebsite ion & geotigentiation of the provided of the provided form a computer via a network. After I published it, I got to thinking that the same basic design, with a couple of changes could...... Listed





3D Printed Arduino Controlled Eggbot/Spherepot First off this project was a combination of of two great online resources. I had been looking into building an eggbot for a while and since I had a lot of ping pong balls on hand after one of my other videos the time was right for..... Listed under: Robotics - Automation Projects



Cup Cooler using an Arduino This is my first Instructable, so please judge harshly so that I can learn 🙂 Its a simple project minimal skills needed. Drawings are made using: Fritzing Code Written using Codebender The cold plate got to -20c Watter in the cup measured @ 5.5c compared...... Listed under: Game -**Entertainment Projects, Projects**



Arduino – Simple Simon Says Game In this instructable, I will show you how to make a simple Simon Says Game using an Arduino. it's not just simple but we can get a psychological benefit. I have a bad memory to remember something fast or a new things. So this project...... Listed under: Game – Entertainment Projects

192. The LED Blinky ball using Arduino Update: I'll add some clarifications after reading comments on various forums. It doesn't need a 70Mhz ARM CPU, all it does is shift bits into a



shift register, that'd be a total waste. There aren't 16 CPU's. the slices are designed to be either slave..... Listed under: LED Projects, Projects



Drive a webpage in real-time using Arduino, SensorMonkey and Processing.js Remote visualization of real-time sensor data. This tutorial describes in detail how to use the free SensorMonkey service to push real-time sensor data from an Arduino to a webpage for visualization using Processing.js. No server-side coding or Ethernet shield is required. A standard, run of the mill...... Listed under: Internet – Ethernet – LAN Projects, Projects



Google Play Music Internet Radio (Raspberry Pi and Arduino) I was looking for a project to do with my Raspberry Pi and found thisInstructable and thought I would have a go at something similar which worked with Google Play Music. I had a rough idea of what I wanted the final item to end up like and was..... Listed under: Radio Projects, Sound - Audio Projects

195

Memsic 2125 Accelerometer using Arduino The Memsic 2125 (datasheet) is a two-axis accelerometer capable of measuring acceleration up to plus or minus 2g. It has a simple digital interface: two pins (one for each axis) emit pulses whose duration corresponds to the acceleration of that axis. By measuring the length..... Listed under: Metering – Instrument Projects, Projects

196. R/C LEGO® "The Bull" Buggy There are more than 20 models of LEGO®'s Dune Buggy type car, even more than the models in LEGO® Race Car category. Dune Buggy is usually four whealbid webstreadee bid kieshighted a solar as a contract of the solar and the solar and the solar and the solar and the solar as a contract of the so



197.



Arduino Esplora Microphone (Sound Sensor) This sketch shows you how to read the microphone sensor. The microphone will range from 0 (total silence) to 1023 (really loud). It uses the sound level to set a brightness level for the green LED. When you're using the sensor's reading (for example, to..... Listed under: Projects, Sound – Audio Projects



Beach Buddy: 3-in-1 Solar Phone Charger, Boombox, and Sunburn Timer Calculator Imagine the ideal beach trip. The sun is shining, the skies are blue, the water is warm, and the humidity is low. You and your friends have everything you need to soak up the sun, sand and surf: a cooler filled with drinks and snacks,...... Listed under: Battery Projects, Solar energy projects



Add Linux, WiFi, Ethernet and USB to Arduino Web site: http://www.dragino.com/products/yunshield/item/86-yun-shield.html Project Summary: The model of this shield named Yun Shield, the feature of this shield is as its name. User can add this shield into Arduino (Leonardo, UNO, MEGA2560 etc) and "turn" the Arduino into device which has similiar features as Arduino..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Internet – Ethernet – LAN Projects



Bike Turn Signal & Brake Light Handlebars This project was inspired by a very cool kickstarter called Helios Bars. Essentially what this project does, is put an arduino, LEDs, and buttons into your bike handlebars. The LEDs can be used as turn signals, brake lights, or display ambient colors while riding. It's..... Listed under: Car Projects, LED Projects



A Robotic lawn mower powered by Solar Energy with an Arduino heart This robot will mow the grass of your garden, staying within a defined area, avoiding all obstacles and working in complete autonomy, automatically charging itself with a solar panel. In this post we present a robotic lawn mower, powered with solar energy and able to...... Listed under: Robotics – Automation Project Ideas, Solar energy projects



Arduino Control via a Web Service with Teleduino Convert your Arduino into a sofisticated web control platform using Teleduino. Teleduino is both a product and a service. Once the Teleduino sketch has been loaded on your Arduino (the 'product'), it then connects to the Teleduino server awaiting your instruction from anywhere in the..... Listed under: Ideas, Internet – Ethernet – LAN Project Ideas



Arduino based Graph This example shows you how to send a byte of data from the Arduino to a personal computer and graph the result. This is called serial communication because the connection appears to both the Arduino and the computer as a serial port, even though it..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects



Hexapoduino: tiny hexapod 3D printed, Arduino controlled A few time ago, i found out a 3d printed Micro-Hexapod on Thingiverse. I started to work on it in the following ways: - create new accessories/components 3D printable - explore the possible ways to drive this hexapod. Here the results: - a parametric battery holder that fits..... Listed under: Arduino Programmer Projects

205.

DIY Binary Clock with Arduino Yesterday I was going to start watching a movie, when me and my friend pedro decided to give up on the movie and build a This website clock cotteres continperturbing on how to cerver an its were added in the two with the start watching a movie, when me and my friend pedro decided to give up on the movie and build a This website clock cotteres continperturbing on how to cerver an its were added in the two with the start watching a movie, when me and my friend me and my friend pedro decided to give up on the movie and build a This website clock contribution of the two were added to give up on the movie and build a start watching a movie, when me and my friend me and my friend to give up on the movie and build a How To – DIY – Projects, Projects





Arduino stepper motor and servos shield This instructable will show you show to build an Arduino shield which can be used to control 3 servos and 1 stepper motor using 4 potentiometers. You will need: access to a laser printer/cnc router/etching chemicals 7 x 3 pin 3.5mm terminal blocks 2 x..... Listed under: Motor Projects, Projects



Home automation system using Arduino and SIM900 GSM module Hi there! As I've almost finished my studies at Faculty of Engineering, I had to make a graduation project and my thought was to make a jaw-dropping thing (I know that's hilarious 🍚) to show everybody that I'm a good prototype maker and I...... Listed under: Home Automation Projects



Track-and-explode wolf collar... Don't worry! First, this is a rebuild out of a movie so it won't explode for real and it won't be worn by a real wolf. However there is fursuiting for which I am a big fan of and my own character (fursona) is a..... Listed under: Game – Entertainment Projects



Aquarium Light V1 Version 0 My first attempt at an LED Aquarium light started as an excuse to buy some of those LED light strips off of eBay. I gutted the old 18" fluorescent fixtures and soldered together row after row of 18" RGB LED strips. They mounted..... Listed under: Home Automation Projects



Super Brite LED Sneakers 1.0 using an Arduino Create your own Super Bright LED-lined sneakers that blink with multiple patterns. 1.0 FEATURES: - 1 color LEDs - 6 patterns - reed sensors + magnets that give you control to step through patterns - detachable velcro design - small, wearable microcontroller + power Step...... Listed under: Game – Entertainment Projects, Home Automation Projects, LED Projects, Projects



Control Android mobile by an Apple Remote using Arduino I love to integrate devices which are not supposed to be integrated and this guide shows you how you can control an Android mobile using Apple's Remote. (Who said Apple devices work only with Apple products ③) Also this is my entry to the...... Listed under: Arduino Android, Internet – Ethernet – LAN Projects, Projects

212. Psychic Fortune Teller – An automaton that reads the mind of Twitter Creepy fairground attraction and Twitter App! The Psychic Hive-Mind Fortune Teller is a fairground arcadetype attraction which can tell your fortune. Even better than that though - it's also a web-connected Twitter application that can harvest tweets and regurgitate them as fortune readings! The Fortune..... Listed under: Internet – Ethernet – LAN Projects, Robotics – Automation Projects, Sensor – Transducer – Detector Projects





Bike Dashboard In this Instructable I'll show you how to make a electronic dashboard for a bicycle. We'll be using an Arduino and a few off-the-shelf parts to create a system with light control and an LED speedometer. Step 1: Materials Arduino Micro (RadioShack #: 276-258) 12V...... Listed under: Game – Entertainment Projects, Home Automation Projects



Game maker Rover using an Arduino In this Instructable I will be giving you step-by-step instructions on how to interface The Arduino, A Motor Controller (L293D), and a laptop to make a Wifi controlled rover you can drive around your house or work from anywhere in the world. I started and..... Listed under: Game – Entertainment Projects, Projects



Star Wars Adafruit Flora Theremin LED Bra Use the force, Luke. Close your eyes, hold on tight to your light saber and....... Don't touch that dial. No tweaking the knobs. Just wave your hands in front of the two sensitive sensors embedded in this bespoke piece of wearable tech. The garment has..... Listed under: Game – Entertainment Project Ideas



Bluetooth Controlled Message Droid using Arduino This is an instructable for a bluetooth controlled Message Droid. I call it R2Blue2. It moves around and displays messages that you type using your phone or computer. Atleast it was supposed to. Due to many problems such as underpowered batteries and bad cable management..... Listed under: Arduino Android, Internet – Ethernet – LAN Projects, Projects



Flora- an interactive flower Hello everyone.....Today I have taken something out of my flower garden....We all know, plants have their own lives, they can feel just as we feel..but they can't express it...But what happens if a flower gains the ability to interact with you? Imagine a flower sitting at your..... Listed under: Home Automation Project Ideas

218. Build your own Arduino – Bare Bone System I've read through a lot of tutorials online to make an Arduino Clone on a breadboard, and some of them are great, but none of them really seem to have it all, so I'm going to attempt to bring it all together here and provide..... Listed under: Development Board – Kits Projects, How To – DIY – Projects, Projects



YABBAS – Yet Another Bare Bones Arduino (on Stripboard) This Instructable will demonstrate the building of a bare bones (and really inexpensive... less than \$5) Arduino compatible module that can be put together on a small piece of stripboard and can be used either on a breadboard or independently. The following links / similais.webisted used ecological books and the stripboard between the stripboard and can be used either on a breadboard or independently. The following





Twittering Laser Tripwire with Webcam Capture using Arduino This instructable will show you how to construct a laser tripwire that can twitter and grab an image from a webcam, as well as execute any command you can put in a bash script. This instructable is actually quite simple and is even suitable as a beginner..... Listed under: Internet – Ethernet – LAN Projects, Projects, Video – Camera – Imaging Projects



DIY 360 Degree SODAR Device First off, why did we decide to call this thing SODAR? SOnic Detection and Ranging, or SODAR, is a lot like SONAR and RADAR. However, we don't feel comfortable calling it SONAR because we have no desire to use it for navigation and we aren't..... Listed under: Sensor – Transducer – Detector Projects



RGB's with Arduino and Processing Here is an easy(enough) project to introduce you to the Arduino microcontroller, as well as Processing. This is my first Arduino and Processing project and I didn't have too much bother getting it working. This is my entry to the Sparkfun Microcontroller contest so if..... Listed under: LED Projects, Projects



PixelBrite I originally started this project because I wanted to recreate the scene in the movie the Close Encounters of the Third Kind where the humans are communicating with the Mothership via a huge color organ. So I glued various bits of software together and made...... Listed under: LED Projects

224. Analog Read Serial using Arduino This example shows you how to read analog input from the physical world using a potentiometer. A potentiometer is a simple mechanical device that provides a varying amount of resistance when its shaft is turned. By passing voltage through a potentiometer and into an analog input on..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects





Hack a voice changer to add an Arduino input Another quick hack. I purchased a voice changer because I was looking for something cheap that could be hacked into an voice input device. Basically I wanted to animate a skull when I spoke. Added bonus, now the skull puppet would also have a scary..... Listed under: Projects, Sound – Audio Projects



DIY Arduino Remote Control and Lego RC Vehicle!! UPDATE (8/29/13): Thank you readers for your enthusiasm and kind remarks regarding this project! It has been a tremendous journey since I started this project back in March, but I am very glad with the resulting product and the excitement with which it has been received...... Listed under: How To – DIY – Projects, Robotics – Automation Projects, Sensor – Transducer – Detector Projects This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT **Read More**



3-dimensional Star Cluster using an Arduino This instructable will guide you through the process of making your very own star-cluster from LEDs and acrylic. I made this piece for my electronics final project at college and had access to a machine shop. This instructable assumes that you have access to similar..... Listed under: Home Automation Projects, LED Projects, Projects



Matrix sound machine: Generative music with a particle system using Arduino This project is a part of experiments done while doing an artist in residence at Instructables. You can see the other projects here. Creating emergent patterns that can be converted into sounds fascinates me. So this is my first experiment in building an arduino platform for...... Listed under: Projects, Sound – Audio Projects



Lite Brite LED clock using an Arduino Lite Brite pegs look like LED's don't they? That's what I though the other day after working on an LED cube for a few hours. I happened to see my daughter's Lite Brite sitting there, and I looked at the pile of LED's on my..... Listed under: Clock – Timer Projects, LED Projects, Projects



The tweiger counter The following steps will enable you to build your own tweiger-counter! It searches in current twitter messages sent around the globe for the words like nuclear, calculates a sliding window average and pushes it to the arduino that will click for every incoming tweet like...... Listed under: Calculator Project Ideas

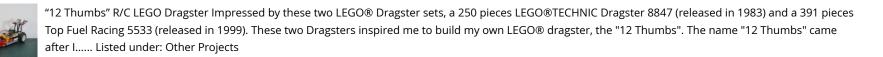
231. DIY 3D Controller using an Arduino Make a 3D interface using an six resistors, aluminum foil, and an Arduino. Take that, Wii. Update: a much more thorough explanation of this project is available from Make Magazine. It might be easier to follow their instructions, and I think their code is more..... Listed under: How To – DIY – Projects, Projects





Analog Fabric Joypad using an Arduino How to make an "analog" input device from fabric and a few other necessary materials. "Analog" in parenthesis because, although it is made up of 4 analog inputs, the only analog transition between the directions (up, right, down and left) comes from the buffering material..... Listed under: Game – Entertainment Projects, Projects







An Arduino Powered (Scale) Speed Trap After a break of around two decades I've recently started building a model railway. One of the issues I've faced is trying to work out how fast I should be running the trains so that their speed reflects reality given the scale at which they...... Listed under: Metering – Instrument Projects, Projects



Strandbot – a solar & arduino powered R/C motorized Strandbeest The Strandbot is a DIY upgrade for the Strandbeest originally designed by Theo Jansen. Strandbeests are amazing mechanical creatures that are able to move on their own using just a little bit of wind power. Unfortunately my tiny apartment is short on wind, so I..... Listed under: Motor Projects, Robotics – Automation Projects 236.



Make your own programmable thermostat for \$66 with Arduino This project will show you how you can create your own programmable thermostat with temperature probe, an LED readout and ability to remote control outlets. The core of this project is actually a driver for a 4 digit seven segment display. There are lots uses for..... Listed under: Projects, Temperature Measurement Projects



Online Thermometer using Arduino One of the projects in Practical Arduino is the "Online Thermometer", which combines an Ethernet shield with a number of DS18B20 1-wire temperature sensors to allow you to read multiple temperatures and make the values accessible using a web browser. In that project I chose..... Listed under: Temperature Measurement Projects



Self-balancing skateboard/segw*y project Arduino Shield General purpose Arduino shield for self-balancing machines. Why did I make it? I previously made an Instructable in 2010 on how to build a self-balancing skateboard. http://www.instructables.com/id/Easy-build-self-balancing-skateboardrobotsegway-/ There are >500 comments on this and many express confusion setting up the balance sensors, software and electronics...... Listed under: Development Board – Kits Projects



How to control LED's with Processing and Arduino The other day I was confronted with an interesting problem, I needed to control a series of lights from an interaction on a computer screen and it had to be as inexpensive as possible. I instantly thought of an Arduino. It had everything that I needed,..... Listed under: LED Projects, Projects



Arduino Waveform Generator Shield Waveform generators (also called function generators) are useful for testing and debugging circuits. They can be used to test the frequency response of electronic components like op amps and sensors or to characterize and troubleshoot audio effects boxes and pedals. This waveform generator shield is...... Listed under: Projects, Radio Projects



DIY Flex sensor using Sugru and graphite powder (Resistencia flexible usando Sugru y polvo de grafito) Este es el primero de 5 instructables que surgieron del Instructables & Sugru build night (and day en nuestro caso) que hicimos en el Laboratorio de Juguete, el 20 de julio del 2013: una Resistencia Flexible o Flex Sensor hecha con Sugru y polvo de grafito:..... Listed under: How To – DIY – Projects, Sensor – Transducer – Detector Projects



Arduino Audio DAC Options DAC is short for Digital to Analog Converter. In this article we play around the code Michael Smith created for a PWM based DAC. I modified his code so that other DAC options could be tried. I compare the 8-Bit PWM DAC with the R2R..... Listed under: Projects, Sound – Audio Projects



Laser Shooting Game This laser game is a simple project that utilizes an Arduino mini. All target boards have an Arduino, sensors, and servo control ports. Shooting the target center triggers the servo and the board falls flat. Step 1:What you need [box color="#985D00" bg="#FFF8CB" font="verdana" fontsize="14 "..... Listed under: Game – Entertainment Projects

244. Clock Two – Single digit clock using Arduino Time for another instalment in my irregular series of clock projects. (Or should that be "Time for another instalment in the series of irregular Tibis Websites "SPRS concluses with the extra free of the series of the s



Projects



Your Image on an Arduino! – TFT LCD Screen Guide Have you ever heard of TFT LCD screens? They are great ways to display information from your Arduino, or display pictures. The Arduino team just released an official TFT LCD screen with their new Robot at Maker Faire 2013. It's very easy to get started..... Listed under: Video – Camera – Imaging Projects



Multiplexing 7 Segment displays with Arduino and Shift Registers In this instructable, I will be teaching the basics of multiplexing 7 segment displays using an Arduino and a couple of shift registers. This project is well suited for displaying numerical information or if you want to control a bunch of LEDs. For beginners, like me,..... Listed under: Calculator Projects, LCD Projects



DIY 3D Laser Scanner Using Arduino Maker Alessandro Grossi sent us this great DIY build for a 3D scanner built using a laser, a DSLR, and an Arduino controller. Allesandro is a Mechanical Engineer, holding a Ph.D. in product design. His day job involves helping designers and manufacturing firms develop and..... Listed under: How To - DIY - Projects, Projects





IPod Information Screen Rev. 2 I'm not usually one to revisit a project after I've finished it, but I made an exception because the problems with the original design were making this device unpleasant to use. For those of you just now viewing this project, it is the second iteration...... Listed under: LCD Projects



An Arduino RSS Feed Display This Arduino project will display RSS feed headlines on an LCD via an Arduino and a USB cable. It works quite well, and lets you keep up with the world news while you're sitting at your desk. Many of the values in the code can..... Listed under: Internet – Ethernet – LAN Projects, LCD Projects, Projects

250. Arduino Powerd, RGB + White LED, Bluetooth controllable, Floor lamp A couple of mounts ago i order a 1M long WS2801 RGB led strip, just for fun. I took me a while to get the strip working with my Arduino. The next step was to figure out what to do with the strip. after some...... Listed under: LED Projects





Rainbow Jar – RGB Pixel Strip Controlled via Arduino Our most popular item on our display at Maker Faires is always the Rainbow Jar. One customer has already replicated it so we thought we'd share how we made it so you can make your own! https://vine.co/v/hqxpVgdFQ9z (tried embedding this vine but it breaks instructables!) Step..... Listed under: LED Projects

252.

ARDUINO with XBEE- WIRELESS SETUP DEMO This video describes how to configure two Series 1 XBEEs using Arduino UNO board. The ways of making 2 way communication is also tested on Wireless mode. Overview The Xbee shield allows an Arduino board to communicate wirelessly using Zigbee. It is based on the Xbee module...... Listed under: Development Board – Kits Projects, Projects



Super Simple Arduino Powered Roomba Scheduler Like most people I was skeptical about getting a robotic vacuum cleaner, so as a trial run I thought I would buy the now obsolete iRobot Roomba 530 which was heavily discounted (they're still available in Australia, showing how behind the times we are). Of...... Listed under: Robotics – Automation Projects



Arduino String Case Change Functions Code The String case change functions allow you to change the case of a String. They work just as their names imply. toUpperCase() changes the whole string to upper case characters, and toLowerCase() changes the whole String to lower case characters. Only the characters A to..... Listed under: Development Board – Kits Projects, Projects



Blink LED using Arduino This example shows the simplest thing you can do with an Arduino to see physical output: it blinks an LED. Circuit To build the circuit, attach a 22 resistor to pin 13. Then attach the long leg of an LED (the positive leg, called the..... Listed under: LED Projects, Projects

256.

Yogy – The Arduino Powered Robot Made For Kids In this Instructable I will show you how to make a cute and kid friendly Obstacle Avoiding Robot I like to call Yogy. Yogy gets his name from the Yoghurt tub body he is made from. I am a sucker for seeing the best in...... Listed under: Robotics – Automation Projects

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How to control 8 leds using Arduino UNO hey guys this is my first arduino project plz comment how u feel. Step 1: Things u need As this is easy project for beginner's so parts are also simple Parts: 1- Arduino uno or any other board will work 1-Beardboard 9- jumper wires or..... Listed under: LED Projects, Projects



Analog Write with 12 LEDs on an Arduino Mega This example fades 12 LEDs up and the down, one by one, on an Arduino Mega board. Circuit image developed using Fritzing. For more circuit examples, see the Fritzing project page Connect the longer, positive legs of (anodes) 12 LEDs to digital pins 2-13 through 220 ohm current limiting resistors. Connect..... Listed under: LED Projects, Projects



Digital/Analog Clock – Arduino + PaperCraft In this instructable we will be recreating a clock inspired by Alvin Aronson's original design. When I first saw this clock I was very impressed by how clean an elegant the design was I immediately wanted to recreate this effect. I hope some of you feel..... Listed under: Clock – Timer Projects



Arduino Hello World Blink Code This is a basic example how arduino works. In this arduino projects you'll see how arduino control LED on for 1 second and off for 1 second repeatedly. Instruction; 1) Connect cathode lead of LED (shorter lead) to ground pin and anode lead of LED...... Listed under: LED Projects, Projects



Autonomous Autonavigation Robot using Arduino This is a step by step guide to build an autonomous navigation robot. We use the Arduino microcontroller to control this robot. We have two different programs for this robot. The first enables the robot to drive around and avoid anything that gets in its..... Listed under: Projects, Robotics - Automation Projects

262. AAA Robot (Autonomous Analog Arduino) The AAA Robot is a perfect robot for beginners. It is versatile, easy to build, and discusses many of the topics roboticists need to learn,



including but no limited to transistor switches, motor driving nad analog sensors. This Instructable includes step-by-step instructions on how to..... Listed under: Robotics – Automation Projects



An Arduino Thermometer with Digital Display This is a project for Arduino to make a Thermometer with Digital Display, aimed at beginners. Arduino measures the voltage on a TMP36 Temperature sensor, converts the Voltage to Degrees Celcius and Displays the value on an LOL shield display. Objectives: * Learn how to..... Listed under: LED Projects, Temperature Measurement Projects



Cell phone text using an Arduino Arduino text'in. Key Features: 24 relays controlled by 4 I/O lines! Cell phone text using your Arduino. This project hacks a cell phone to text using normally open relays. After investigating cellular modules on the internet I decided it looks not only rather pricy, but...... Listed under: Phone Projects, Projects

265. Thermal Camera Have you ever had the desire to see what can not be seen? I never had the ability to see in thermal infrared, and it is rather cool to be able to see in the thermal infrared pEhtsoWebesetecuses agoetices be improveny out expery i encer. Wey that surbisteo Wirelek Wethpterist brat Weas caencept & Bud jif cys, Widisch - Caccerer - In Regid gMoore cts



Arduino FM radio receiver shield This Instructable will show you how to build your own FM radio receiver shield to be used with an Arduino board. The radio chip we are going to be using is the AR1010 on a breakoutboard found at Sparkfun or Electrokit and there will be code to get...... Listed under: Projects, Radio Projects



266

ArrDrownHo! – Easily convert AVR to Arduino Cap'n ArrDrownHo! is the lovechild of Ardweeny and Boarduino and he's here to commandeer your AVR ships. ArrDrownHo! inherits pros of both and cons of neither. Pick up an AVR chip and start prototyping instantly on a breadboard! Want to replace that costly Arduino in your project with a..... Listed under: Development Board – Kits Projects



Kaosduino: Create your own kaosillitaor using Arduino This project is a part of experiments done while doing an artist in residence at Instructables. You can see the other projects here. Inspired by Korgs Kaossilator I took it upon myself to build an opensource version of it. This way people can design new ways...... Listed under: Projects, Sound – Audio Projects

269. Whiteboard Erasing Robot using Arduino My entry for the Microcontroller contest is a whiteboard cleaning robot. The goal of this project was to create a robot which could erase written text on a whiteboard completely autonomously, i.e. no human interface. The processes involved in this project included devising a method...... Listed under: Ideas, Robotics – Automation Project Ideas



The Point Shooter Cyborg Mouse Control cyborg technology and revolutionize your PowerPoint presentations - build a wearable mouse! So you converted some video glasses to a heads-up display glass. You built a wearable Raspberry Pi, pcDuino, or BeagleBone Black. Now, how do you control your cybernetic augmentations? You make a..... Listed under: Robotics – Automation Projects



Arduino Esplora Pong Want to play Pong on your computer with your Esplora? This example shows you how. This example is designed to be used with a Processing sketch. Processing is an open source programming environment. The Esplora reads the slider and buttons and sends data to the..... Listed under: Game – Entertainment Projects, Projects



Single button combination lock using Arduino Time for something different - a single button combination lock. Allow me to explain... Updated 18/03/2013 Normally a combination lock would require the entry of a series of unique numbers in order to unlock something or start an action. For example: A more contemporary type..... Listed under: Projects, Security – Safety Projects



The Knock Box: Build a Knock-Sensitive Power Strip The Knock Box is a power strip with superpowers - it turns on your lamp whenever you knock on your nightstand. You get two outlets, individually controlled by knock-knocking on a nearby hard surface. It's great for hitting the lights when it's pitch dark, but if an..... Listed under: Development Board – Kits Projects

Quasi real-time oscilloscope using Arduino Recently I was reviewing one of my oldest project, and decided to "refresh" previous design by taking full advantage of the new arduino Leonardo board. Based on AtMega32U4, which include PGA (programmable gain amplifier), oscilloscope's analog front end doesn't require This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT **Read More** external OPA this time, end...... Listed under: Metering – Instrument Projects, Projects





Arduino LED Bar Graph Code The bar graph - a series of LEDs in a line, such as you see on an audio display - is a common hardware display for analog sensors. It's made up of a series of LEDs in a row, an analog input like a potentiometer,..... Listed under: LED Projects, Projects

276. The Raspberry Pi – Arduino Connection The Pi is a fine little computer board, though not nearly as good as the Arduino when it comes to I/O capabilities. The beautifully-



engineered Gertboard is a plug-in add-on that neatly overcomes this deficiency by giving the Pi access to an ATMega328, but it's a very..... Listed under: Development Board – Kits Projects



High Heel Massage using an Arduino My project is to make a heel (shoe) that senses when your foot is tired and then eases the pain. I will have a force sensor measure how much pressure is on your foot for 3 minutes. If the pressure is at a certain measure..... Listed under: Home Automation Projects, Projects, Sensor – Transducer – Detector Projects



How to use a Piezo element to detect vibration using Arduino This tutorial shows you how to use a Piezo element to detect vibration, in this case, a knock on a door, table, or other solid surface. A piezo is an electronic device that generates a voltage when it's physically deformed by a vibration, sound wave,..... Listed under: Projects, Sensor – Transducer – Detector Projects



Paper Man: a machine created by Arduino and NFC Paper Man is a machine comprised of Arduino, NFC Shield, thermal printer and a papercraft shell—Iron Man. Thanks to the NFC Shield, you can directly sent messages from your mobile to the paper man, and the paper man will spit it out by printing with...... Listed under: CNC Machines Projects, Home Automation Projects



Sending and Receiving String via UDP using Arduino In this example, you will use your Ethernet Shield and your Arduino to send and receive text strings via the UDP protocol (Universal Datagram Packet). You'll need another device to send to and from. The Processing sketch included at the end of the code will..... Listed under: Internet – Ethernet – LAN Projects, Projects



Mr. Indecision – a small felt version of yourself that turns its head and looks at you using Arduino This is a tutorial on how to use 123D Catch to get a 3D scan of your whole body. Once you have the scan or "catch" the tutorial will take you through a technique to clean it up and manipulate it ready for 123D Make...... Listed under: Game – Entertainment Projects, Projects, Sensor – Transducer – Detector Projects 282. Arduino Beginner and Basic Electronics Kit Primer I learned that one of my nieces had an interest in programming. She was working with robotics at high school and has a



summer internship where they had Arduinos. I think she was able to borrow an Arduino to experiment with at home but every..... Listed under: Development Board – Kits Projects



Scintillino – an Arduino-based quick&dirty scintillation counter Have you ever wondered about the radiation levels around you? Well today you can build your very own detector that measures ionizing radiation and displays data in real-time on an LCD (and also your computer if you want). The visual design, as seen below, is..... Listed under: Calculator Projects



Arduino Quadruped Robot Stalker Arduino Quadruped Robot - Stalker I am going to build an Arduino Quadruped Robot. As usual, I will share my source code and show as many pictures as possible, to help those of you who are also building Quadruped robots. The way I do things might not...... Listed under: Projects, Robotics – Automation Projects



Dimmer using an Arduino This example shows how to send data from a personal computer to an Arduino board to control the brightness of an LED. The data is sent in individual bytes, each of which ranges in value from 0 to 255. Arduino reads these bytes and uses..... Listed under: LED Projects, Projects



Mystery Beeping Prank The Mystery Beeping Prank is a device hidden in a hollowed out book that beeps intermittently at different frequencies. I made this because I am surrounded by a lot of incredibly creative people who have a penchant for pranking one another, and this seemed like...... Listed under: Game – Entertainment Projects, Sound – Audio Projects



Arduino Controlled Catapult I recently had the idea to create a catapult, But not just any kind of catapult, an electronic catapult! I wanted something I could just sit it down hit some buttons and watch it do its thing without being to big. This is what I..... Listed under: Other Projects, Projects



Emoticon Helmet using Arduino The Internet has become a pretty good mask to portray yourself as anything you want. This includes hiding your true emotions when posting facebook statuses, IMing someone, or sending emails (like telling you're boss they are awesome when they are really a jerk). But what..... Listed under: Game – Entertainment Project Ideas, Ideas





How to Make a Tactile Feedback Compass Belt Have you ever wondered how migratory birds manage to have such an amazing sense of direction despite being so genera clueless? They can sense the Earth's magnetic field with what is basically a compass built into their body. Wouldn't it be cool to feel what..... Listed under: Metering – Instrument Projects, Sensor – Transducer – Detector Projects



Arduino Liquid Crystal Displays I had initially planned to do an LCD tutorial a little further down the line, but there was very high demand for it, and I already had a circuit assembled for testing the new LCD that element14 sent me to evaluate. So, this seemed like...... Listed under: LCD Projects, Projects



Interfacing Electronic Circuits to Arduinos Interfacing Electronic Circuits to Arduino In this instructable I use an example of interfacing an Arduino to an ARINC 429 transceiver in order to demonstrate the general process of interfacing an Arduino to electronic circuits so you can use these techniques on your own designs...... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects



Analog Clock And Temperature sensor On An Oscilloscope using Arduino Scopeclock is an easy to use hardware to make your X-Y capable analog oscilloscope more useful .Using this simple to use hardware you can convert your analog oscilloscope into a scope clock.This project was me and my friend kshitij gupta at CEDT nsit under the...... Listed under: Clock – Timer Projects, Projects, Sensor – Transducer – Detector Projects, Temperature Measurement Projects



How to make A light-up distance sensor In this instructable, I will show you how to make a sensor that will light up more lights the closer you are to it. Step 1: Placing The Electronics This step will show you where and how to place the electronics on the breadboard Materials:..... Listed under: Sensor – Transducer – Detector Projects



Home Automation (or Robot Butler called Geoffrey) – iPhone controlled, arduino based Being able to control everything from your pocket has long been a dream shared by many. Previously we've had universal remotes that can both control our TVs and radios, then we had wireless wall sockets. Both great things, but how likely is it that you're..... Listed under: Home Automation Projects, Phone Projects, Robotics – Automation Projects



Save data of temperature and humidity on MySQL with Arduino Uno and Wifly Hello guys, i make this instructable for the people that liked the electronics and the botanic, with this you have the data about the temperatura and the humidity of your orchard and register this in a data base MySQL. For this proyect you need some..... Listed under: Home Automation Projects, Internet – Ethernet – LAN Projects, Projects, Temperature Measurement Projects

296. Arduino String Addition Operator Code You can add Strings together in a variety of ways. This is called concatenation and it results in the original String being longer by the length of the String or character array with which you concatenate it. The + operator allows you to combine a..... Listed under: How To – DIY – Projects, Projects





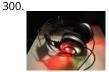
Gut Check a Tweeting and Facebooking Fridge using Arduino I have a problem, I'm trying to lose weight but I love snacking late at night. And no one knows that I even do it. That being one of my biggest hurdles, I figured why not include all my social media friends and followers in..... Listed under: Home Automation Projects, Internet – Ethernet – LAN Projects, Projects



Personal Space Defender A simple and elegant way to help keep your personal space bubble from being invaded by close talkers and overly huggie people. This is a stolen or borrowed idea from Phillip Torrone of Adafruit, who mused about something like this on an episode of..... Listed under: Sensor – Transducer – Detector Project Ideas



Arduino led pendulum Step 2: Putting up the wires Strip both ends of wires -insert one end of each wire into sockets numbered -Gnd(black wire in my case)-this will be the common ground connection - 13 (green wire in my case) - 12 (yellow wire in my case) - Listed under: LED Projects, Projects



Adafruit Flora NeoPixel LED Ring Headphone mod Wearable Arduino mod for your headphones. Non-invasive procedure for headphones that don't have room inside the drivers or you don't want to hack apart your high end cans. Adafruit just put out a tutorial for adding pattern blinking LED lights to headphones. This instructable takes it..... Listed under: Sound – Audio Projects



Candy Tossin Coffin using an Arduino When you flip a switch, the coffin lid opens and a smiling red eyed ghost arises. The ghost flings some candy, pushes the switch back and returns to rest. Then, the coffin lid closes. Step 1: Major parts include: 4.5 rpm motor #155821 Jameco.com 1.8..... Listed under: Game – Entertainment Projects, LED Projects, Projects



Arduino Controlled Solar Fountain A fountain can make a nice decorative fixture for your garden. But it isn't always easy to run a power cord out to where you want it. So I decided to run it on solar power. The system is controlled by an Arduino. This allows..... Listed under: Solar energy projects

303. Arduino HVAC Servo Thermostat or Controller Welcome to my 'green' instructable! I am going to show you how to use an Arduino, two servo motors a temperature sensor and some metal (or wood) to make a digital thermostat for a through-wall HVAC unit. According to CB Richard Ellis (a major real..... Listed under: Arduino Motor Project Ideas, Ideas





Arduino Photocell Theremin Synth (glitchamin) You know theremins, right? Those cool-looking boxes with antennae that produce noise without being touched? They are played by the likes of Jimmy Page of Led Zeppelin, and present in the soundtracks of countless films. Well, with this instructable, I will show you how to..... Listed under: Solar energy projects



Teclado MIDI Super Simple – Super Simple MIDI Keyboard Este tutorial te lleva paso a paso por la construcción de un teclado MIDI de una octava, programable via arduino gracias a su conector de 6 pines. Vas a necesitar: Componentes: 1 Atmega328p con el bootloader de Arduino 1 Zócalo de 28 patas 1 Cristal..... Listed under: Sound – Audio Projects



AIR Project using an Arduino CODE: download final project code: Arduino Code download additional wiring_analog.c code: Wiring Code download processing code: Processing Code download C code: C CODE FILE EXPLANATION: The final project code is the final arduino code for the project. The wiring_analog.c code should ONLY be used for..... Listed under: GPS Based Projects, Projects



Arduino-Pneumatic Flight Simulator Hello, my name is Dominick Lee. I am a senior in high school who is also a programmer and inventor. I created the "LifeBeam Flight Simulator" (name of my project) because I wanted to challenge myself and utilize my software and hardware skills. I was..... Listed under: Game – Entertainment Projects, Robotics – Automation Projects

308.

Arduino PIR motion water gun first what youll notice my grammer isnt the best 🙂 ok what youll need: 1 transister/mosfet that can handle the current for the water gun motor, this is the one i used - http://www.sparkfun.com/products/10213 - then a diode, i used this one

- http://www.sparkfun.com/products/8589 - then a 10k ohm resistor.... Listed under: Game - Entertainment Projects, Projects, Projects This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT Read More





Pee to Check-In to Foursquare – Mark Your Territory using Arduino In case you are unfamiliar with the most amazing new way to physically "check in" to foursquare here is a video that will explain it all: Mark Your Territory is a fully open-source system but because it interacts with the physical world as well as...... Listed under: Projects, Sensor – Transducer – Detector Projects

310. Mini invisible MIDI Harp English: This is a simple and easy to make MIDI harp, it runs on an Arduino UNO and uses infrared sensors as strings. It communicates with every

recording software that has MIDI. Its really fun to play with and also very cheap, so enjoy!! Español:..... Listed under: Sound – Audio Projects



311.

Arduino Electromagnetic Field Detector A while back I saw an EMF (Electromagnetic Field) Detector at makezine.com that used a led bargraph. I decided to modify it to use a 7-Segment LED Display! Here's my project. Sorry I don't have any pictures of it in use. Hopefully I can post...... Listed under: Projects, Sensor – Transducer – Detector Projects



Arduino Time-Lapse Controller This project originally started out with a few simple parts thrown together to create a very simple time-lapse controller for a DSLR camera. After I was happy with the initial prototype, I wanted to make a final version which the programming of the "lapse time"..... Listed under: Video – Camera – Imaging Projects



Self Balancing Unicycle Following the popularity of our self balancing scooter and the SciChair we decided to try something a little edgier, the Self Balancing Unicycle. This project reuses a lot of stuff from our previous projects, using an arduino as the brains behind the scenes. Step 1:..... Listed under: Game – Entertainment Projects, Motor Projects



My Arduino Ping Display Robot Goals Hello all. I hope to please share a little robot that I have just finished building. There are many Ping Boat, perhaps with a tutorials and display less so without pretension, will illustrate what I could do. I gave myself the goal of realizing..... Listed under: LCD Projects, Projects, Robotics – Automation Projects



A Gentle Introduction to Arduino for Scratch Users There are lots of people who are very comfortable with the Scratch programming environment but want to try something with Arduino to Blink Lights, Sense Buttons, Run Servos or whatever. They may find the C programming environment in Arduino IDE - Sketch, a bit too..... Listed under: Other Projects

Arduino-controlled RGB LED Infinity Mirror Update 11/22/2013: Thanks to everyone who voted for this project in the Microcontroller Contest! It was one of three

first-prize winners. Update 9/17/2013: Thanks to everyone who voted for this project in the Arduino contest (I was one of ten "second prize" winners)! If you This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT **Read More** want to try..... Listed under: LED Projects





Visual Network Threat Level Indicator v2 using Arduino By popular request this is a new wireless version of the Visual Network Threat Level Indicator. This uses a Roving Networks WiFly RN-XV Module to do 802.11 WiFi along with an Arduino to display the threat level on your network. Network monitoring is very important in todays..... Listed under: Internet – Ethernet – LAN Projects, Projects



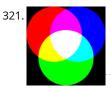
A cardboard televisor (with arduino and LEDs) Recently I saw a documentary about the history of the television. And to my surprise they showed that there existed a mechanical television before the well known CRT televisions. Those mechanical televisions or televisors were pretty smart and simple. A CRT is simply an electron beam that..... Listed under: LED Projects



Arduino Target Practice A quick demo video for your pleasure. This is an instructable for a target practice system for airsoft and nerf weapons. The system has been designed to test a shooter's reaction times and accuracy. Sam and I have been meaning to do this project for a..... Listed under: Game – Entertainment Projects, Projects



Make your own Custom Electronic Widgets, like my Arduino LED Day/Night Widget This is just a brief run down on how easy it has become to make your own circuits complete with your own PCB's. Have you ever wanted to make something custom that suits your needs? Of course you have!! For me it really started when..... Listed under: LED Projects



Virtual Color Mixer using Arduino This example demonstrates how to send multiple values from the Arduino board to the computer. The readings from three potentiometers are used to set the red, green, and blue components of the background color of a Processing sketch or Max/MSP patch. Software Required Processing or Max/MSP...... Listed under: How To – DIY – Projects, Projects



Led Slot Machine Costume using Arduino This Instructable will walk you through my process of making a Slot Machine costume with addressable leds controlled with an arduino! Step 2: Lets Get started Picture set up: I found my slot picture online that the best graphic that when enlarged would stay...... Listed under: Arduino LED Project Ideas, Game – Entertainment Project Ideas, Ideas



Arduino Keyboard Message Code When the button is pressed in this example, a text string is sent to the computer as keyboard input. The string reports the number of times the button has been pressed. Once you have the Leonardo programmed and wired up, open up your favourite text..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects

324. Visual Computer Stress Meter using an Arduino Have you ever wanted to, without going out of your way to clock your processor, see how much stress your computer is under?



With this project you will have a simple bar graph that constantly shows how much stress your computer is under. If the...... Listed under: Metering – Instrument Projects, Projects, RTOS – OS Projects

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Bluetooth Weather Lamp This was a 2 hour project I whipped up in order to learn how to use a new Bluetooth LE 4.0 module I picked up at redbearlab.com, called a BLE Mini. I've since thought of several much simpler ways (and more dependable) to accomplish the..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Project Ideas, LED Projects

26.

Necomimi Arduino Cat Ears They are so dang cute. If you have ever seen the cool promo for the Necomimi Neurowear wearable set of cat ears that respond to brainwaves, you would want a set too. But it seems they may be vaporware since it hasn't materialized on the..... Listed under: Game – Entertainment Project Ideas, Ideas



DIY Arduino Unit Converter: How to use LCD Step 1: Ingredients: Electronics Arduino Breadboard LCD* 2x 50k pots 150 ohm resistor Jumper wires, and tons of them! If you do not want to use a LCD then you will have to use serial monitor. Wherever you see lcd.print just change it to Serial.print...... Listed under: How To – DIY – Projects, LCD Projects



CHR's 8X8X8 LED Cube – Revisited with improvements! SEE STEP 11 for uploadable code for this cube. This instructable has mutated over the past few months, and you'll see a bunch of end results before we get into how to make the cube, and the improvements that have been made over the original..... Listed under: LED Projects



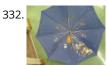
Arduino 4 led madness In this instructables you will learn how to wire 4 LED'S and make them flash 10 times. This is a great Starter project!! what you will need... 1: arduino (I am using an Duemilanove) 1: breadboard 4: LED's 10-15: jumper wires 3: resistors Step 1:..... Listed under: LED Projects

330. Fading using an Arduino Demonstrates the use of analog output (Pulse Width Modulation (PWM)) to fade an LED. PWM is a technique for getting an analog-like behavior from a digital output by switching it off and on very fast. Circuit An LED connected to digital output pin 9 through..... Listed under: LED Projects, PWM Projects



331.

Arduino Guitar Tuner Build your own electric guitar tuner using the Arduino! I decided to make this because I wanted to experiment with audio input and frequency detection. I used Amanda Ghassaei's method for Arduino Frequency Detection in order to get frequency readings using the Arduino. I used LEDs that..... Listed under: Sound – Audio Projects



Pressure Activated Light-Up Umbrella using an Arduino Once upon a time, 2 girls greatly enjoyed walking in the rain with umbrellas. They decided the enjoyment of this experience could be maximized by building their own pressure-activated web of LEDs to install under their umbrella. Thus, with the help of an Arduino, some..... Listed under: Home Automation Projects, Projects



TankWars: A Physical Video Game using Arduino This instructable will show the game TankWars, a web based game played on an iPad that drives a real robot tank to fire lasers at a robot. When you hit the robot target, the game is updated. The tank and the target are Arduino's equipped..... Listed under: Game – Entertainment Projects, Projects, Robotics – Automation Projects



ATtiny programming with Arduino After this Instructable you should be able to program an A Ttiny85/45 with an arduino. It may sound complex but it really isn't. After doing some research I could not find to much info on how this could be done. I however did find http://www.instructables.com/id/Program-an-ATtinywith-Arduino/. This Instructable..... Listed under: Arduino Programmer Projects



Arduino Fixed-point Vehicle Proximity Detector This is the high-tech version of hanging a tennis ball from the ceiling from a piece of string. Of course, if you have two different types of vehicles, that tennis ball isn't going to land in the same place on both of them. This project..... Listed under: Arduino Car Project Ideas, Ideas, Sensor – Transducer – Detector Project Ideas



Electronic Dartboard or How I Learned to Stop Worrying and Love ECE 476 Introduction Ever dream of having a darts game scored automatically without using those annoying plastic darts? We decided it was a dream most of us has had at some point, and so decided to implement an automatic scoring system for a "real" cork dartboard. As..... Listed under: Game – Entertainment Projects



Arduino 7-Segment Thermometer Using a dual 7-segment display, a DS18B20 temperature sensor and a couple of shift registers I figured that I could build a digital thermometer. Step 1: Temperature Sensor The sensor I'm using is the DS18B20, it's a 3pin sensor that just requires a single input..... Listed under: Projects, Temperature Measurement Projects



Arduino String Comparison Operators Code The String comparison operators, ==, !=,>, < ,>=, <= , and the functionsequals() and equals/goreCase() allow you to make alphabetic comparisons between Strings. They're useful for sorting and alphabetizing, among other things. The operator == and the function equals() perform identically. It's just a matter..... Listed under: How To – DIY – Projects, Projects



USB Freeform using an Arduino This is a project in attempting to improve it predecessor "Freeform Arduino" by putting it in an enclosure and having it serve the similar purposes as "Palm Arduino Kit" and "Palm Arduino II" which I can carry it in my pocket and be available to...... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects



soundie: a musical touch-sensitive light-up hoodie using Arduino This tutorial will show you how to create a garment that changes its behavior depending on how conductive you are. It detects conductivity through iron-on conductive fabric that we will use, and it will light up and sing different notes depending on how you touch..... Listed under: Game – Entertainment Project Ideas, How To – DIY – Project Ideas, Ideas



Arduino Board Sound Alarm I've just completed my second Arduino project, a sound level detector which sets off an "alarm" when there's the sound level is to high for too long. I built it for use in a school that wants to provide visual feedback to students when they..... Listed under: Projects, Security – Safety Projects



Visual Network Threat Level Indicator using Arduino Network monitoring is very important in todays world. The internet is a scary place. People have taken steps to raise their awareness by installing Intrusion Detection Systems(IDS) such as SNORT. The problem with most of these systems is that upon first installing them they are..... Listed under: Ideas, Internet – Ethernet – LAN Project Ideas



Flicker up to 6 LEDs with Arduino Hi there. Christmas is coming closer, and I was wondering if I could put some candles in my room to get in the "christmas mood". But af friends house burned down of christmas tree candles, I don't want to burn real candles into my...... Listed under: LED Projects, Projects





Displaying Images on 4D OLEDS using Arduino 4D Systems makes some really nice serial OLEDS. They aren't hard to use, but the documentation for them is very scattered. This tutorial pulls together the various pieces i've found so that you can get up and running very quickly. Start by skimming through the...... Listed under: Video – Camera – Imaging Projects



Program your Arduino with an Android device Hi, in this Instructable I want to show you, how you can program your Arduino with your Android device. It is very simple and cheap. Also it allows us to program our Arduino where ever we want, this is usefull for permanently installed Arduino boards,...... Listed under: Arduino Android, Electronics News Updates



Arduino stoplight web server At the place I work, we use xymon to monitor of our servers. All of the services monitored are important, but we wanted a separate indicator to simply show the overall health of the most critical systems. Furthermore, we came up with the following criteria:..... Listed under: Internet – Ethernet – LAN Projects, Projects



Power off from an Arduino Sketch using the Pololu Power Switch If you need an Arduino to shut off from within your Sketch, this is the solution. We will explore wiring the Pololu Pushbutton Power Switch, programming the Arduino to shut off the power, and making the unit "power on" only. The Pololu Pushbutton Power Switch..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects

348.

Wireless nunchuk controlled animatronic doll using Arduino This instructable will attempt to show you how to make an animatronic doll controlled by a wireless nunchuk. This doll can only move its head though. I'm sure there are plenty of people out there who can take this and expand on it and make..... Listed under: Game – Entertainment Projects, Internet – Ethernet – LAN Projects, Projects



349. Digital Read Serial using Arduino This example shows you how to monitor the state of a switch by establishing serial communication between your Arduino and your computer



over USB. Hardware Required Arduino Board A momentary switch, button, or toggle switch 10k ohm resistor breadboard hook-up wire Circuit image developed using Fritzing. For more...... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects



Arduino Esplora Joystick Mouse This sketch shows you how to read information from the Esplora's joystick and use it to control the movement of the cursor on your computer. You're making your Esplora into a mouse! This sketch will take over the mouse movement of your computer. If you..... Listed under: Game – Entertainment Projects, Projects



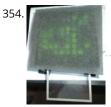
Hookup an LCD to an Arduino Adding an LCD display to Arduino projects can add real value but the cost of doing so can be significant. Not a financial cost - you can pick up 16 (characters) x 2 (rows) LCD for as little as £3.50. The cost is the pin..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, LCD Projects, Projects



The Tetris Pumpkin using an Arduino Who wants grinning faces and candles when you can have an interactive pumpkin this Halloween? Play your favorite block-stacking game on an 8x16 grid carved into the face of the gourd, lit by LEDs and using the stem as a controller. This is a moderately...... Listed under: Game – Entertainment Projects, Home Automation Projects, Projects



Switch Statement used with serial input using Arduino An if statement allows you to choose between two discrete options, TRUE or FALSE. When there are more than two options, you can use multiple if statements, or you can use the switch statement. Switch allows you to choose between several discrete options. This tutorial shows you..... Listed under: How To – DIY – Projects, Projects



Touch Sticky Note using Arduino This piano-liked thing is what I called touch sticky note. I Use a piece of sponge as the paper, and put 8 x 8 LEDs under the sponge. Whenever I touch the touch screen, the related LED will turn on, and this is how I..... Listed under: Ideas, Sensor – Transducer – Detector Project Ideas



A laundry alarm for the hearing impaired and everyone else using Arduino This Arduino based project was designed to solve a recurring problem for my hearing impaired wife. Our laundry room is located remotely from our living area. If our laundry has finished washing and is not removed in time, it can sour or even get moldy. Listed under: Home Automation Project Ideas, Projects, Security – Safety Projects

356. Android & Arduino Controlled Projector Screen This is my first time using Arduino, or any microcontroller. I'm glad it worked out so well but my wife may not be, due to the

stacks of microcontrollers that will being showing up on our doorstep soon for future projects. Any feedback or questions...... Listed under: Arduino Android, This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT **Read More**





Freeform Arduino As an artist, sometime I created an art pieces without planning ahead what I want to draw or paint, just want to add colors or lines onto the drawing or canvas, and never think of the outcome of the piece. Let's our own instinct and subconscious leading..... Listed under: LED Projects, Projects



L.O.G. sous vide So have you heard of sous vide? Well, this Lazy Old Geek (LOG) hasn't or hadn't. http://en.wikipedia.org/wiki/Sous-vide It's French. So it's kind of like boil-in-a-bag only you don't boil it. The equipment can be rather expensive. http://www.sousvidesupreme.com/Shop_Online/SousVide_Supreme_Demi/Department.aspx?DeptID=3&&AdID=245&gclid=CN7PyM6uw7cCFWNp7AodomkA6g I thought that was rather expensive for a..... Listed under: Home Automation Projects



Energy-Saving Light using an Arduino In the spirit of Earth Day, I have created a revolutionary new energy-saving lighting solution that is only ever on when your eyes are open. This is remarkably more efficient than normal lighting that remains on, even when your eyes are shut. Using my device, you..... Listed under: Home Automation Projects, Projects



Make your own custom Arduino compatible I love Ardunio. I love the things that people make with them and I love to make my own. Last August I published an Instructable on how to make your own postage stamp sized Arduino compatible. This Instructable will show you how to to make a..... Listed under: How To – DIY – Projects, Projects



The CoaTracker using Arduino Has this ever happened to you? You wake up in the morning and realize that you're terribly late for work/class/your weekly pedicure/whatever. You throw on a t-shirt and flip flops, sprint around your warm, heated house grabbing your belongings, and race out the door...where you..... Listed under: Ideas, Sensor – Transducer – Detector Project Ideas



Arduino String Appending Operators Code Just as you can concatenate Strings with other data objects using the StringAdditionOperator, you can also use the += operator and the cconcat() method work the same way, it's just a matter of...... Listed under: Development Board – Kits Projects, Projects

363. Solar powered arduino on the back of a playing card Here's a six word tragedy: My arduino needs four AA batteries. Really? Isn't this 2012? Where's my jetpack?!! Here's a way to the future -- a way to make a solar panel, from scratch, that can power any arduino off of sunlight or even light..... Listed under: Battery Projects, Projects, Solar energy projects



364.

How to Build an Arduino Voice Controlled TV Remote #include <EEPROM.h> #include <Wire.h> #include <SoftwareSerial.h> #include <LiquidCrystal.h> SoftwareSerial voice = SoftwareSerial(15, 16); LiquidCrystal lcd(5, 6, 7, 8, 9, 10); int pulses, A_SIG=0, B_SIG=1, menu=0, datacount, i, buttoncount=0; int count, j, k, m, ready=0, even=0, fail, first_but=0, second_but=0; word Power[100]; word Remote[100]; //word Remote2[100]; word...... Listed under: Home Automation Projects, Projects

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How to make a servo and Ardiuno stand In this instructible I will show you how I make my servo stand. This stand is useful if you want to test a new way to control a servo but dont want to use a servo on your robot or something. make Step 1: Cut..... Listed under: Arduino Motor Project Ideas, Ideas, Other Project Ideas



The useless alarmed Coke can using Arduino Hi all! This is the most useless project in the world! It consist in a Coke can attached to an Arduino trough a coaxial cable and two resistors that make a sound when an hand is near it. Step 1: Materials and Tools For make..... Listed under: Game – Entertainment Projects, Projects



The useless but mazing QR-clock using Arduino I got this idea for a while but I never had the chance to try it out. Friday, a workmate gave me a LCD shield for Arduino and I thought that was the right time to build a clock that comunicate the time through QR-codes. Of course, it's..... Listed under: Clock – Timer Project Ideas, Ideas



Building the YaNis EOS Controller using Arduino The YaNis EOS controller is a device that allows you to wirelessly control your Canon DSLR from your Android phone. What's really exciting here is that the Android interface allows you to change most of the camera's settings (like Shutter Speed, Aperture Size, ISO, White..... Listed under: Arduino Android, Internet – Ethernet – LAN Projects, Projects



Color Changing Nightlight using Arduino So, instead of buying a nightlight for my kid's room, I decided I could do a much better job of it. This nightlight cycles through 1500 colors over 7 mins and turns on when it is dark and turns off when it is light. It..... Listed under: Arduino LED Project Ideas, Game – Entertainment Project Ideas, Ideas

370. Arduino Combi-button Lock optional Android support Recently, I decided I would like to attempt to make a passcode lock with my newly acquired Arduino Uno, but all the tutorials I could find made use of a modified keypad, something that not every Tom, Dick and Harry has lying about. I therefore...... Listed under: Arduino Android, Internet – Ethernet – LAN Projects, Projects, Security – Safety Projects



PEZ Robo Dispenser Using Arduino I was strolling down the candy aisle at the supermarket and there it was: the PEZ dispenser, conjuring up sweet (literally) childhood memories served up by my favorite cartoon characters in squarish sugary pellets. Then, all of a sudden, an LED went off in my...... Listed under: Game – Entertainment Projects, Projects, Robotics – Automation Projects

372.

371.

Quality of Life Meter Harsh new rules at work getting you down? Overtime sucking the life out of you? Or maybe things are great, either way now you can show your co-workers and management exactly how you feel about your job without a single meeting, memo, or team bonding...... Listed under: Metering –

Instrument Projects

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Arduino Switch Statement used with sensor input An if statement allows you to choose between two discrete options, TRUE or FALSE. When there are more than two options, you can use multiple if statements, or you can use the switch statement. Switch allows you to choose between several discrete options. This tutorial shows you..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects, Sensor – Transducer – Detector Projects



Modifying a Robot Arm using Arduino Essentially another tutorial involving controlling DC motors. In this post I'm going to first alter a robot arm I had built previously from a beginners kit so that it can be controlled from Arduino. Then I'm going to write a series of posts on different..... Listed under: Projects, Robotics – Automation Projects



RC Paper Tank – Bring your 3D models to life Bring your 3D models to life! In this instructable we will custom make a remotely controlled tank. We will infuse paper-craft with an arduino based system. This tank will be controlled on a android based phone though a bluetooth connection. I've strived to create something with...... Listed under: Game – Entertainment Projects



Barcode Reading using Roborealm Output on Arduino LCD This Instructable shows how to create a Barcode Reader using only a webcam together with Roborealm and Arduino. The webcam used in this demonstration is the Logitech Quickcam and the LCD screen is labelled, JHD162A. What you need for this project: 1. Arduino UNO 2...... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, LCD Projects, Projects



Analog In, Out Serial using Arduino This example shows how to read an analog input pin, map the result to a range from 0 to 255, and then use that result to set the pulsewidth modulation (PWM) of an output pin to dim or brighten an LED. Circuit image developed using Fritzing...... Listed under: Projects, PWM Projects



Midi Light Show using Arduino For a class, my teammate and I decided to develop a MIDI based system that has a responsive light for each note played. For example, if you plug our little setup to a keyboard, pending on which note you press, you'll get a specific color...... Listed under: Projects, Sound – Audio Projects



Arduino Basics: Working One LED I've been encountering lots or Arduino projects but generally most are on intermediate and advanced level and only a few basic instructions on how to start with Arduino. This project I made were actually inspired by this example on the Arduino page, but a much...... Listed under: Arduino LED Project Ideas, Ideas

380. Tweet-a-Pertis Witter Enabled Coffres Pot Hsips Arduing Like the idea. Went has for you! Tweet-a-pot is the next in fancy twitter enabled devices. This coffee pot enables its owner to make a pot of..... Listed under: Home Automation Project Ideas, Ideas





3D Printed Digital Camera This is a 3D printed digital camera that you can build yourself. By making your own digital camera, it takes away some of the mystery around how such devices work, and are fabricated. Also, it allows you to fully customize the camera to your liking...... Listed under: Video – Camera – Imaging Projects



Acrylic Arduino Prototyping Stand I do a lot of projects with Arduino's and breadboards. Often as I work on a messy workbench, the Arduino or breadboard get jostled and the wires pop out of the headers or the breadboard. To solve this problem, I decided to make a simple...... Listed under: Ideas, Interfacing(USB – RS232 – I2c -ISP) Project Ideas



The LED Strip Jellyfish Costume with Arduino & LPD8806 Led Strips It all started when I saw a BBC documentary in 2002 about deep waters of the ocean. There was a biolimunescent jellyfish in the documentary, probably of the species "ctenophores" that grabbed my attention so in the later years I decided use it as a Halloween costume...... Listed under: LED Projects



How to use a while loop to calibrate the value of an analog sensor using Arduino Sometimes you want everything in the program to stop while a given condition is true. You can do this using a while loop. This example shows how to use a while loop to calibrate the value of an analog sensor. In the main loop, the sketch below reads..... Listed under: Metering – Instrument Projects, Projects, Sensor – Transducer – Detector Projects



Arduino-I3dgecomm – Integrating L3DGEWorld and Arduino L3DGEWorld is a tool for monitoring and interacting with networks and computer systems. Within a 3D world, entities bounce, spin, scale and otherwise change. These entities all represent an entity in another context - be it a server, phone, router or other monitorable device. The..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects



Mailbox Phone Alert The mailbox phone alert sends you a text whenever you get mail. I remember anxiously checking my mail multiple times a day during the spring of my senior year of high school as I awaited letters back from colleges. Nervously, I would walk up to..... Listed under: Phone Projects



Tree Climbing Robot using Arduino After I got comfortable programming and building with an Arduino, I used my newly acquire microcontroller skills to build a robot. Using a microcontroller, four high-torque DC gear motors, spiked legs, a linear actuator, rotation sensors, and 3 L298 H-bridge circuits, this robot can climb..... Listed under: Projects, Robotics – Automation Projects

388.

Palm Arduino Board V3 I design and create this Palm Arduino V3 prototype PCB, as I was tired of recreating Arduino Compatible on perf board every time I prototyping a new project, especially when I had to spend a lot of time tracing the wiring to see that I..... Listed under: Development Board – Kits Projects, Projects This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT **Read More**





How to make a XY-plotter with Makeblock Last month, I made a XY-plotter by Makeblock and use it to built a Drawing Robot. This Drawing Robot was built with two Linear Motion Shaft D8x480mm, two Long Beam0824, the timing belt, two stepper motors, two stepper motor driver, and a micro-controller Arduino. You..... Listed under: Robotics – Automation Projects



Best RGB LEDs for any project (WS2812) When we're working with LEDs, we often like to control their state (on/off), brightness, and color. There are many, many different ways of going about this, but none are as compact a solution as the WS2812 RGB LED. In its tiny 5mm x 5mm..... Listed under: LED Projects



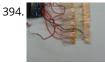
DIY Skee Ball Machine The skee ball machine is a wonderful thing. The simple experience of rolling a ball into a target is so freakishly satisfying that I used to play as much as I could as a kid at the local amusement park/mini-golf course. The sound of the..... Listed under: How To – DIY – Projects



The Dryer Messenger using Arduino The dryer in our house is in an out-of-the-way corner where it's hard to hear the buzzer. When we miss it, the clothes sit in the dryer getting wrinkly, so we start the dryer again, don't hear the buzzer again ... it's an endless cycle...... Listed under: Home Automation Projects, Projects



LED Shoulder Pads For this project, I was inspired by my best friend. She had been wanting some disco-fabulous armor-inspired wearable technology for music festivals and costume parties for some time. I took a pair of construction/gardening knee-pads and turned them into glitterific shoulder pads that shine bright..... Listed under: LED Projects



Using Copper Tape To Create A Digital Selection Pad using Arduino This is partially me sharing this technique, and partially me learning how to use Instructables. If there are issues with my documentation of the technique or my use of Instructables, please let me know in the comments - thanks! I needed a long row of..... Listed under: Ideas, Interfacing(USB – RS232 – I2c -ISP) Project Ideas

395. How to Create an Arduino Compatible Bluetooth 4.0 Module I had been looking for a cheap alternative to some of the Arduino Bluetooth devices I'd seen, which in my opinion are overpriced. Redbear's Mini: \$39.95 (Note: This is a uC and BLE combo). Redbear's Uno Shield: \$29.95 BLEDuino: \$19.95 (if part of Kickstarter) Bluegiga..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects





Tilt Sensing Bracelet using Arduino A bracelet decorated with six conductive fabric petals and a thread of beads with a metal bead at the end, makes for a simple six point tilt detection. It is also designed so that the metal bead will make contact with two petals if it..... Listed under: Ideas, Sensor - Transducer -**Detector Project Ideas**





Homemade Arduino Friendly Pulse Sensor I saw the Open Hardware Pulse Sensor at thought I'd try to make it at home. Took me awhile, but here's my bumbling process. Step 1: Pulse Sensor -- Overview I've been working on re-making the the Open Hardware Pulse Sensor so it'd be "easy" to send off to Listed under: Medical – Health based Projects, Sensor – Transducer – Detector Projects



DIY Robotic Hand Controlled by a Glove and Arduino This project idea came to me when I was sitting on a bed on a hotel room on vacation. I thought: "It'd be really neat to have a robotic hand that I can control with my own hand!" Upon returning home, I embarked upon a..... Listed under: Robotics - Automation Projects



Arduino Barometric Pressure Web Server This example shows how to use SPI communications to read data from a SCP1000 Barometric Pressure sensor, and how to then post that data to the web by using your Arduino/Ethernet Shield combo as a simple web server. Using the Ethernet library, your device will..... Listed under: Internet - Ethernet - LAN Projects, Projects, Sensor - Transducer - Detector Projects



NES in a Cartridge using Arduino Have your ever seen any of "Ben Hecks" portable console builds? Well if you haven't, he often uses these Chinese Famicom clone consoles. These cloned consoles are often times refered to as NOAC's, meaning NES On A Chip. They are called this because they are..... Listed under: Game – Entertainment Project Ideas, Ideas

401. Create an Internet Connected Pill Dispenser The P.I.L. Box - A Better Medication Reminder System Studies show the consequences of patients not taking medications according



to doctor's orders can be serious, especially in older patients. With today's low cost micro-controllers and sensors (and the incentive of the Radio Shack / Instructables Micro..... Listed under: Internet - Ethernet - LAN Projects



Android talks to Arduino This project slightly modifies the Google Android sample app called "Bluetooth Chat" so you can type a message in the Android app and that same message will appear on an LCD attached to an Arduino Uno. Functionality: Android talks to Arduino 1. Run the Android...... Listed under: Arduino Android, Interfacing(USB - RS232 - I2c -ISP) Projects, Internet - Ethernet - LAN Projects, Phone Projects, Projects

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403.



Make an Emoticon Jacket with LCD screen using Arduino Concept: I would like to make a jacket that has a small LCD screen to create subtexts for interpersonal human interaction. The user would use a limited "keyboard" with force sensors and buttons under soft silicone keys to create computer textual subtitles to human interaction...... Listed under: Arduino LCD Project Ideas, Game – Entertainment Project Ideas, Ideas



Create Interactive Electronic Instruments with MaxMSP This Instructable is part 3 in an Intro to MaxMSP series I've just finished teaching atWomen's Audio Mission in San Francisco. Part 1 is an introduction to MaxMSP and MIDI, part 2 is intermediate Max and Audio, and this Instructable is all about interfacing MaxMSP with hardware. I..... Listed under: Other Projects



Make another Arduino LCD shield In this tutorial we make an LCD shield for using 20 character by four row LCD modules with Arduino Uno. Updated 18/03/2013 In this article you can follow the process of making another LCD shield for the Arduino Uno or compatible boards. In the past (which explains...... Listed under: LCD Projects, Projects



RGB LED Skate Light I like to go skating every week but I noticed that the my skates weren't cool enough so I decided it was time for some lights! I installed these lights on my Dad's skates as a thank-you present for taking care of the pool for...... Listed under: LED Projects

407. Arduino controlled window for cat I am submitting this instructable to the Arduino challenge. Please remember to vote! My neighbor had a little problem with his cat. It want's to go out and back inside too frequently. Usually he opens just his kitchen window and let's the cat in/out. Usually..... Listed under: Home Automation Project Ideas, Ideas





Homemade Infrared Rangefinder (Similar to Sharp GP2D120) using Arduino Here is my instructable on how to construct a pretty simple (for some!) short range infrared rangefinder/range sensor. Infrared rangefinders are very useful in a number of projects. The majority of these come from obstacle detection (in robots) or generally detecting distances! The one shown...... Listed under: Internet – Ethernet – LAN Projects, Metering – Instrument Projects, Projects, Sensor – Transducer – Detector Projects

409.

Make your own Enigma Replica EDIT: This Instructable has won Second prize in the 2013 Radio Shack Microcontroller Contest. Thank You to all who voted! This is our very first Instructable and this step by step guide will show you how to build a fully functional electronic replica of the..... Listed under: Game –

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Robotic Eye using Arduino Hello, This time I will show an application of the infrared sensor module with Arduino. This module (composed of a pair of LEDs, a infrared transmitter and a receiver and an IC that generates a frequency modulated) is generally used to detect obstacles in robots...... Listed under: Ideas, Robotics – Automation Project Ideas



MIDI Note Player using Arduino This tutorial shows how to play MIDI notes from an Arduino. MIDI, the Musical Instrument Digital Interface, is a useful protocol for controlling synthesizers, sequencers, and other musical devices. MIDI devices are generally grouped in to two broad classes: controllers (i.e. devices that generate MIDI...... Listed under: Game – Entertainment Projects, Projects, Sound – Audio Projects

412. Serial Call and Response with ASCII-encoded output using Arduino This example demonstrates string-based communication from the Arduino board to the computer using a call-and-response (handshaking) method. The sketch sends an ASCII string on startup and repeats that until it gets a serial response from the computer. Then it sends three sensor values as ASCII-encoded...... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects





Trinity Assembly Hey dudes! Lets build the trinity synt! ! More information about the synth at: www.bastl-instruments.com Before you start: the board solders from both sides and the component goes always above its printed sign so it hides the sign! You should know that there are some...... Listed under: Other Projects



6 button RGB controller using Arduino In this instructable we will learn how to use 6 buttons to control the color of an RGB LED with the use of an Arduino Micro Controller. This is a fun and easy little project that should take you no more then 20 minutes to...... Listed under: Ideas, Interfacing(USB – RS232 – I2c -ISP) Project Ideas



Serial Call and Response using Arduino This example demonstrates multi-byte communication from the Arduino board to the computer using a call-andresponse (handshaking) method. This sketch sends an ASCII A (byte of value 65) on startup and repeats that until it gets a serial response from the computer. Then it sends three..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects



A Self-Contained Data Logging Anemometer I love collecting and analyzing data. I also love building electronic gadgets. A year ago when I discovered the

Arduino products, I immediately thought, "I'd like to collect environmental data." It was a windy day in Portland, OR, so I decided to capture wind data...... Listed This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT **Read More** under: Metering – Instrument Projects



417.

Calibrating sensor input using Arduino This example demonstrates one techinque for calibrating sensor input. The Arduino takes sensor readings for five seconds during the startup, and tracks the highest and lowest values it gets. These sensor readings during the first five seconds of the sketch execution define the minimum and..... Listed under: Projects, Sensor – Transducer – Detector Projects

418. Arduino 4wd robot with ping sensor "J-Bot" Experience Level: Intermediate (requires soldering) Time Required: 3-5 hours depending on experience J-BOT Kit I Jameco P/N 2140285 Someone mentioned that Jameco needed a robotic mascot. I have always been a tinkerer, especially with radio-controlled electronics and so I volunteered for the chance to design..... Listed under: Ideas, Robotics – Automation Project Ideas





*duino Keg Temp Monitor, or the Quest for the Perfect Pint I was looking for a project that combined my three favorite things - working in my shop, building cool stuff for my bar and of course, drinking beer. After a couple of weeks in the old country drinking "the Guinness", I decided my I'd put a keg..... Listed under: Temperature Measurement Projects



Arduino Fingerprint Lock There is a short video for this Arduino fingerprint lock here: http://v.youku.com/v_show/id_XNjlxNzQyNzY4.html I live in a small apartment in Shenzhen with my wife and baby, 5 months old. Sometimes, I need to go out, for example, to go downstairs to buy candy or diapers for my...... Listed under: Security – Safety Projects



ORP / pH / Temperature Data Logger As a Water Quality professional working in the drinking water field, I know how important it is to accurately monitor the disinfectant levels in the drinking water that gets served to the public. Usually, that means taking weekly grab samples in the distribution system and...... Listed under: Sensor – Transducer – Detector Project Ideas



Paper Electronics: Make Interactive, Musical Artwork with Conductive Ink using Arduino If you've ever wanted to bring a piece of paper to life, now is your chance. This instructable will take you through all the necessary steps to create an amazing interactive flyer or artwork. This event flyer is no ordinary piece of print. It is printed using..... Listed under: Projects, Sound – Audio Projects



Arduino-based master clock for schools If your school, or kids school, or other location relies on a central master clock that is broken, you may have a use for this device. New master clocks are available of course, but school budgets are under extreme pressures, and it really is a..... Listed under: Clock – Timer Projects, Projects

424. Rainbowduino Sign using Arduino The Rainbowduino is a variant of the Arduino and among other things is capable of driving an 8x8 RGB LED matrix. I had just finished a backyard re-model and was in need of an entrance sign. Step 1: Carving and Painting the Sign I had..... Listed under: LED Projects





Another Arduino Traffic light After working with the arduino and not knowing what the heck I'm doing I made Another simple traffic light. I looked around the web to find one that looks about normal and came across none. They seemed too fast. So, I found and modded some..... Listed under: Car Projects, Projects



Electronic Music Box Powered by Arduino (sort of) Music is the most universal means of expression. Regardless cultural language or age the idea conveyed though music would not differ much. It is safe to say everyone loves music, one type or another. When one's favourite piece is played there is a overwhelming desire..... Listed under: Sound – Audio Projects



Aqua Garduino Mini @hydroFishAqua82 Arduino Powered Micro Aquaponic System with Pi Camera and Twitter Feed We are creating an automated aquaponic system with mobile updates via Twitter. Sensors and motors will be controlled from an Arduino while the entire system, including mobile updates, will be orchestrated by a Raspberry..... Listed under: Home Automation Projects



Homemade arduino printer If you want to make your own high resolution printer (maybe not so high res), you are at the right place. This Instructable will show you how to do with two dead cd/dvd drive and a pen (pilot, whiteboard marker, whatever you have) at the..... Listed under: How To – DIY – Projects, Projects



My Arduino In Circuit Programmer This Lazy Old Geek is also an Arduino Geek. If you are an Arduino Geek, one of the common microcontrollers used by Arduinos is the Atmega328 chip. In order to use Arduino software, the Atmega must have bootloader software on it. Okay, so I bought..... Listed under: Arduino Programmer Projects, Projects



BLDC Motor Control with Arduino There is a lot of interest these days among hobbyists in controlling brushless DC (BLDC) motors, which have improved performance and better energy efficiency over traditional DC motors, but are more difficult to use. Many off-the-shelf products exist for this purpose. For example, there are...... Listed under: Motor Projects

431. Beginner Programming of Arduino This video is from a meeting of the Kids and Technology Meetup group in Washington DC. The youth who show up to these free meetings are eager to learn advanced uses of computers. The presenters were John Dukovich and Hugo Estrada.... Listed under: Arduino Programmer Projects, Projects

432.

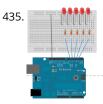
Arduino Button Mouse Control Code Using the Mouse library, you can controls a computer's onscreen cursor with an Arduino Leonardo, Micro, or Due. This particular example uses a five pushbuttons to move the onscreen cursor. Four of the buttons are directional (up, down, left, right) and one is for a..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects



Arduino String Character Functions Code The String functions charAt() and setCharAt() are used to get or set the value of a character at a given position in a String. At their simplest, these functions help you search and replace a given character. For example, the following replaces the colon in..... Listed under: Development Board – Kits Projects, Projects



Arduino-Radio Controlled Hydrogen Blimp The blimp is controlled by a transmitter on the ground, operated by a human. There are three control levers-- one for each motor, and one for the servo that rotates the axis they're attached to. You push / pull to make the motors speed up...... Listed under: Projects, Radio Projects



Arduino Switch (case) Statement, used with serial input An if statement allows you to choose between two discrete options, TRUE or FALSE. When there are more than two options, you can use multiple if statements, or you can use the switch statement. Switch allows you to choose between several discrete options. This tutorial..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects



Potentiometer or variable resistor control LED Code The if() statement is the most basic of all programming control structures. It allows you to make something happen or not depending on whether a given condition is true or not. It looks like this: if (someCondition) { // do stuff if the condition is true } [Get Code]...... Listed under: LED Projects, Metering – Instrument Projects, Projects

437. MultiSerial Mega using Arduino Sometimes, one serial port just isn't enough! When trying to communicate with multiple serial enabled devices, while also sending info back to the main serial window, a few extra RX/TX ports can be a welcomed thing. This example makes use of one of Arduino Mega's..... Listed under: Development Board – Kits Projects, Projects





Arduino 7 segment Displays Digital Clock With Charlieplexing LEDs This is my second instructable. I just had a mood of making a digital watch. But wanted to make it a learning process. I already had a sanguino i could have easily used that Atmega644 chip. it would have been more than enough. But i..... Listed under: Clock – Timer Projects, Home Automation Projects, Projects

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Autonomous Arduino Car My questions for the Make-to-Learn Youth Contest 😳 What did you make? This goal of this project was to take commonly available electronic equipment and create an inexpensive, self-controlled vehicle. In simpler terms, this is an attempt at basic autonomy. It uses an arduino logic...... Listed under: Car Projects, Game – Entertainment Projects, Projects



Remake the Mosquito Killer using Arduino Hi, everyone, i would like to introduce how i remake my mosquito killer here. With this remaking, my mosquito killer become "Smart", and really facilitate my life. I rented a room in very remote place to save my money, in the summer, the biggest trouble..... Listed under: Home Automation Projects, How To – DIY – Projects, Projects



Instagram Inspired DIY Photo-Booth using Arduino I decided to build a simple photo-booth as a fun addition for events, this goes through the basic steps of how i went from a few pieces of wood to a fully functional booth. I have also included a photo of what the images look...... Listed under: Arduino Video – Camera – Imaging Project Ideas, Ideas



How to connect Arduino and RFID On this instructable I will try to show how to interface a RFID sensor with the Arduino. I am using the RFID sensor from seeedstudio the serial version of it. There are a few parts you will gonna need. I also bought some RFID keys...... Listed under: Ideas, Interfacing(USB – RS232 – I2c -ISP) Project Ideas



The Arduino Weather Station I've always been interested in monitoring my local weather, and noticed the difference between what weather.com and accuweather.com think my local weather is, and what I see out the window. I also wanted better control over my heating and A/C system. As a computer and...... Listed under: Ideas, Interfacing(USB – RS232 – I2c -ISP) Project Ideas

444. Arduino GPS Datalogger Do you want to log some GPS data onto an SD card using your Arduino? Do you already own a Sparkfun microSD shield and GPS module? Did you try the Adafruit Sheild (although it is awesome and cheap) but it stole all of your pins?..... Listed under: GPS Based Project Ideas, Ideas



445.

Serial Communications with Arduino At this point you should have a robot that can think on its own, we need to be able to tap into its thought process. See what he sees. Make some of his decisions for him. in essence, we need to be able to guage..... Listed under: Ideas, Interfacing(USB – RS232 – I2c -ISP) Project Ideas



Make Money with Arduino **** ENTERED IN THE HURRICANE LASERS CONTEST**** What would I do with a Laser Cutter? Build Simple Robotic Kits to teach people a Hobby that I Love.Ever wanted to make some money from your projects? This Instrutable will show you how to Simply interface a..... Listed under: Ideas, Other Project Ideas

447.

Build an RFID time-clock system using Arduino With this project you can build an RFID time-clock system to keep track of employees, children and more.

Updated 18/03/2013 Recently I was listening to a friend who has three teenage children of whom needed to arrive home before their parent. Unfortunately the This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT Read More parent needs...... Listed under: Clock – Timer Projects, Projects, RFID - NFC projects





Drifter – Arduino controlled RC car Drifter is based on a cheap RC toy car I found at Toys'r'us, named 'Fast lane Monster Drift'. I think it's the same model Frits has been used in an episode of TLIHR. It doesn't work well, you get what you pay for. But it is a..... Listed under: Car Projects, Projects



House Temperature Monitor using Arduino Recently a family member had his furnace fail while he was away from his house for a long period of time in the winter. His pipes burst and caused quite the mess. This project describes a temperature sensor that broadcasts the temperature in his house to the..... Listed under: Home Automation Projects, Projects, Temperature Measurement Projects

450. Time Lapse Digital Camera using Arduino Following the instructable here, I was able to turn an old digital camera into a time lapse camera using an arduino, a relay, and an open source software program called makeAVI (windows). To modify the camera I disassembled the camera cover and removed the button that..... Listed under: Projects, Video – Camera – Imaging Projects



451. KNIGHT RIDER

Arduino Knight Rider Code Arduino Knight Rider light effect, a simple variation of blink code. Instruction; 1) Connect all LED as diagram below, make sure cathode lead of LED at ground wire. 2) Connect all 330Ω resistor to anode lead of LED. 3) Connect all jumper wire to digital..... Listed under: LED Projects, Projects



The Self-Balancing Robot using Arduino Introduction The idea of this project was to design and construct a robot that consists of a body and two wheels that would be able to balance on its own. This behavior is similar how a segway (a new mode of transportation) works. Our goal..... Listed under: Projects, Robotics – Automation Projects



Arduino Thermal Camera My recent arduino project was to build thermal camera on the cheap using an ir sensor and some pan/tilt hardware. If you look at the device picture to the left there is also acoustic range finder mounted to the top. The device works by sweeping...... Listed under: Projects, Video – Camera – Imaging Projects

454.

Arduino MP3 Player I present this new Arduino project: A full MP3 player based on Arduino. As you can see in the photo, the idea was to build a standalone

player, in the style of antique radios or 'tapes', in the age of Iphones The player uses a small..... Listed under: Projects, Sound – Audio Projects This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT **Read More**





Analog VU meter and Clock using Arduino This project brings back the old time Analog VU Meter, with the added functionality of a neat looking clock! When you turn off your music the meters automatically swing into to clock mode. Behind it all is the popular and easy to use Arduino. This...... Listed under: Calculator Projects, Metering – Instrument Projects, Projects

456. Arduino MIDI Foot Pedal Keyboard The Origin My dad is a musician. He can play a multitude of instruments. However, he only has two arms, BUT he also has legs! That's when we decided that we would reuse the foot pedals from an old organ and convert them into an..... Listed under: Game – Entertainment Projects, How To – DIY – Projects, Projects





Arduino Police Strobe Light Code Arduino Police Strobe Light effect, another simple variation of blink code. Arduino Police Strobe Light effect, another simple variation of blink code. Parts List; 1) 2x 5mm red LED 2) 2x 5mm blue LED 3) 1x Arduino 4) 4x 330Ω resistor 5) 1x 10kΩ potentiometer..... Listed under: Car Projects, LED Projects, Projects



Arduino RFID Lock The Arduino RFID lock How does it work? The Arduino RFID lock is a lock that can be opened easily, but is secure. The lock works with a server database that can register card codes. On the door there is a RFID reader connected to..... Listed under: Projects, RFID - NFC projects, Security – Safety Projects



48×8 SCROLLING MATRIX LED DISPLAY USING ARDUINO CONTROLLER A monochrome (single colour) LED dot matrix display is used for displaying the Characters and Symbols which is interface with a microcontroller. This project will deliberate on displaying a scrolling text message on a 48×8 LED dot matrix display. The microcontroller used is Arduino Uno..... Listed under: LED Projects, Projects



Connecting Arduino LCD Display Code LCD display is great way to display output from your arduino when it not connected to your computer. The common display used in arduino projects is 16×2 parallel LCD display which compatible with the Hitachi HD44780 driver. It can easily recognize with it 16 pin..... Listed under: LCD Projects, Projects



Build a fully featured Arduino Thermostat In this post I will attempt to describe the steps I took to build the arduino based thermostat shown in the following videos. The first video was taken when around just half of the coding of the menu system was complete, but gives you a..... Listed under: Projects, Temperature Measurement Projects

462.

DIY FSK RFID Reader using Arduino This page is describes the construction of an RFID reader using only an Arduino (Nano 3.0 was tested, but others may work), a hand-wound wire coil, and some assorted low cost common components. Credits The hardware and software designs for this project are based in..... Listed

under: How To – DIY – Project Ideas, Projects, RFID - NFC projects This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT **Read More**



463. Arduino Voltmeter Code This arduino projects show how to make voltmeter with your arduino. It use voltage divider concept to estimate the voltage input. Instruction; 1)



Connect all jumper wire as shown in diagram. Upload this code to your arduino /* Voltmeter Voltmeter base on voltage divider concept. Code based on: http://www.clarenceho.net:8123/blog/articles/2009/05/17/arduino-test-voltmeter Coded by: arduinoprojects101.com */..... Listed under: Metering – Instrument Projects, Projects



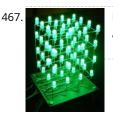
Arduino Temperature Sensor Code This arduino projects show how to read Celsius and Fahrenheit temperature with LM35 temperature sensor. Parts List; 1) 1x 16×2 parallel LCD display (compatible with Hitachi HD44780 driver) 2) 1x Arduino 3) 1x 10kΩ potentiometer 4) 1x LM35 temperature sensor 5) Jumper wire Instruction; 1)..... Listed under: Projects, Sensor – Transducer – Detector Projects, Temperature Measurement Projects



Web Server using Arduino In this example, you will use your Ethernet Shield and your Arduino to create a simple Web server. Using the Ethernet library, your device will be able to answer a HTTP request with your Ethernet shield. After opening a browser and navigating to your Ethernet..... Listed under: Internet – Ethernet – LAN Projects, Projects



Arduino Stopwatch Code Arduino projects, running stopwatch on arduino. Arduino projects, running stopwatch on arduino. Parts List; 1) 1x 16×2 parallel LCD display (compatible with Hitachi HD44780 driver) 2) 1x Arduino 3) 1x 10k Ω potentiometer 4) 1x 10k Ω resistor 5) 1x switch 6) Jumper wire Instruction; 1) Connect..... Listed under: Clock – Timer Projects, Projects



LED Show using Arduino Esplora This example shows you how to read the values from the joystick. The output will be displayed through the serial monitor and as a color on the RGB LED. The joystick has two axes, X and Y. Each axis controls a color of the RGB..... Listed under: LED Projects, Projects

468.

Arduino RPM Counter / Tachometer Code Arduino projects, make arduino rpm counter with arduino. Instruction; 1) Connect all jumper wire as shown in diagram. 2) Connect IR LED to digital pin 13. 3) Connect IR Phototransistor (dark) to digital pin 2. Make sure shorter lead connected to digital pin 2...... Listed under: Metering – Instrument Projects, Projects

469. Arduino HC-SR04 How to use Ultra Sonic Sensor Arduino HC-SR04 The Arduino HC-SR04 is different from most of those commonly seen on the market, which have 4 pins compared to 3 pins. But the operation principle is the same, transmit signal, and depends on when the signal is received to estimate the distance...... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects





Arduino Hexapod Robot Arduino Hexapod Robot Design I will show you how to build an arduino hexapod robot, from building the body, to how to implement the algorithm. To learn about the implementation of the algorithm, read this first, if you are not sure what is IK, read...... Listed under: Projects, Robotics – Automation Projects



Real-Time Arduino GPS Tracker with iPhone app [INTRO] This past semester, I decided to build a GPS receiver with an iPhone app that tracks it for my semester project. Here is a step-by-step tutorial to show you how you can build your own. [OVERVIEW] Architecture of my Real-Time GPS Tracker project. I'll..... Listed under: Blog, GPS Based Projects, Phone Projects, Projects



Arduino GPS Tracking System This was easily the most time I've spent producing an Arduino Tutorial. I've been sporadically walking around NYC with this Arduino GPS for weeks as I've tweaked the code and gotten it just right. If it wasn't obvious from the title, this tutorial will teach you..... Listed under: Featured, GPS Based Projects, Projects



A arduino library for the MAX7221 and MAX7219 These two chips provide an easy way to control either an array of 64 Led's or up to eight digits made of 7segment displays with a minimum of electronic components. Besides the chip itself you will need only a single resistor and one or two...... Listed under: Other Projects, Projects



An amplifier for Arduino For my project, the Arduino output is not enough so digging on the net and asking to a friend some help, I managed to build an amplifier to feed my 3 computer fans. This circuit can be used as an amplifier to switch on and..... Listed under: Interfacing(USB – RS232 – I2c -ISP) Projects, Projects, Sound – Audio Projects

475. Arduino temperature controlled PC Fan Oscar Gonzalez gives us a simple tutorial for speed controlling a PC FAN and reading a LM35 temperature sensor with an Arduino microcontroller. He covers the use of an optocoupler, PWM (Pulse Width Modulation) and reading analog voltages with the Arduino. He even has a..... Listed under: Projects, RTOS – OS Projects, Temperature Measurement Projects





Power (Energy) Meter using Arduino Part 1. Analog Front-End. Opto-Isolator. Looking at the Power Quality Analyzer display, I was wandering, if there is any error in the measurement results, introduced by transformer. Overall THD picture doesn't change much, suspiciously drawing same chart in the morning and in the evening, when..... Listed under: Metering – Instrument Projects, Projects

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Audio VU Meter using Arduino Biasing AC input using resistor divider and scaling up / down if necessary; Sampling fast and accurately using direct access to Control Registers of ADC and Timer1; Subtract whatever was added at step #1 from result of Analog / Digital conversion and Square; Average /..... Listed under: Metering – Instrument Projects, Projects, Sound – Audio Projects



True Analog Audio Volume Control using Arduino ow my Arduino can precisely measure audio input (VU meter), and obviously, next thing that comes to mind right after measurements, is regulation or control. There are many different ways how to electronically adjust audio volume or level of AC signal. I'll name a few:..... Listed under: Projects, Sound – Audio Projects



Sound Localization using Arduino Well, it's elementary simple in theory, how to do sound localization based on phase difference of signals, that received by two spatially distant microphones. The Devil, as always, in details. I've not seen any such project created for arduino, and get curious if it's possible at..... Listed under: Projects, Sound – Audio Projects



Speech Synthesizer using Arduino Synthesized speech was for a long time the Holy Grail of computing, and back in the 1980s when a 4MHz CPU made your computer the fastest machine in the neighborhood it just wasn't practical for software to create intelligible speech. In those days the only..... Listed under: Sensor – Transducer – Detector Projects



Spectrum Analyzer, Arduino project with FFT algorithm The basic idea was to create color organ / spectrum analyzer on arduino board, trying to minimize quantity of external components, like analog filters, LED display drivers, etc. Spend a lot of time in search on internet I was able to find only two !..... Listed under: Game – Entertainment Projects, Home Automation Projects, Projects

482. Arduino Sound Alarm I've just completed my second Arduino project, a sound level detector which sets off an "alarm" when there's the sound level is to high for too long. I built it for use in a school that wants to provide visual feedback to students when they..... Listed under: Projects, Security – Safety Projects, Sound – Audio Projects





MEGAshield KIT for Arduino MEGA 2560 R3 and Arduino DUE ARDUINO MEGA 2560 REV3 The MEGA 2560 is designed for more complex projects. With 54 digital I/O pins, 16 analog inputs and a larger space for your sketch it is the recommended board for 3D printers and robotics projects. This gives your projects plenty of..... Listed under: Development Board – Kits Projects, Projects

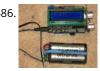
484.

How To Control A Stepper Motor With An Arduino Uno Overview Stepper motors fall somewhere in between a regular DC motor and a servo motor. They have the advantage that they can be positioned accurately, moved forward or backwards one 'step' at a time, but they can also rotate continuously. In this lesson you will..... Listed under: Motor Projects, Projects

485.

Arduino controlled Bluetooth-bot This instructable will show you how to convert an old toy R/C car from the thrift-store (\$1.50) into a bluetooth controlled robot. To make the conversion, you will need an Arduino (any type), an L298N dual 2-amp motor-controller (or similar), and a bluetooth serial adapter..... Listed under: Projects, Robotics to the conversion of the total adapter with this, but you can opt-out if you wish. ACCEPT Read More





Arduino Battery As many of you may know, this Lazy Old Geek loves Arduinos. Many of my projects are portable and need a battery source: http://www.instructables.com/id/Arduino-Pedometer/ http://www.instructables.com/id/Arduino-Nokia-LCD-Sensors/ http://www.instructables.com/id/Ultrasonic-Tape-Measure/ All pricing was determined about early 2012. So, I've been using Adafruit 6 AA Battery holder \$5.00 https://www.adafruit.com/products/248..... Listed under: Battery Projects, Projects



Data Logger Project using an Arduino This is a data logger I made for my class. I couldn't find any instructions that I could use to make the Arduino record the light brightness and the temperature. Then display the temperature and the light value on the LCD then Save it to..... Listed under: Projects, Sensor – Transducer – Detector Projects, Temperature Measurement Projects



Arduino & Visual Basic 6 Light Controller This instructable is something like a tutorial for new VB users. It shows how to create a parser base VB6 program to interact with Arduino circuit. Basically, interaction is in the form of serial communication via the USB port. This is my practice after learning..... Listed under: Other Projects, Projects

489. Arduino LCD Twitter display a.k.a. the gratuitously complicated bidirectionally communicating Arduino-based scrolling Twitter display and notifier. ---- This project was mainly



done as an excuse to learn how to use character LCD displays with my Arduino, and figure out how to make a bidirectional serial protocol. One major design..... Listed under: Internet – Ethernet – LAN Projects, LCD Projects, Projects



Arduino Touch Screen Room Control Hey everyone, I finally finished my touch panel for my bedroom wall and am here to show you how i made it. Unfortunately its not installed in my wall yet as I might be moving and don't want to make anymore holes in my walls,..... Listed under: Home Automation Projects, Projects



Very Simple Arduino Electric Lock This is a instructable for a very simple Arduino controlled electric lock. The key idea here is to be very simple as this was more of a proof of concept prototype type of thing. The Arduino is used as a switch to control the lock..... Listed under: Projects, Security – Safety Projects

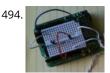


Simple Parking Sensor using Arduino My car has only parking sensor for the Reverse, so when I enter the Garage there is no way to know if I am close enough to the wall to allow the door to close or too close that I can hit the wall with...... Listed under: Car Projects, Projects, Sensor – Transducer – Detector Projects

493.

Arduino Weather Station Part3, Rain So one of my last projects was adding a weather vane to my Arduino weather station. http://www.instructables.com/id/Arduino-Wind-Chill-Machine/ http://www.instructables.com/id/Arduino-Weather-Station-Part2/ This Lazy Old Geek decided to add a rain gauge to it even though we don't get much rain in the high desert. Most digital rain gauges..... Listed under: Projects, Sensor – Transducer – Detector Projects This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT **Read More**





simpleTweet_01 python using Arduino Arduino Python Twitter (Windows) In this instructable we'll modify my simpleTweet_00 and rewrite the Processing code with Python. You can expect an ignorant walkthrough by an illiterate noob, but maybe that's just what you're looking for. Before you begin: If you need help installing Python,..... Listed under: Development Board – Kits Projects, Projects

495. Arduino Home automation This is a relatively simple controller for controlling equipment in your home. At the moment I control my central heating, security and lighting. By



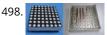
sending commands from my home computer. My homeeasy central heating controller hack. http://www.instructables.com/id/BampQ_homeeasy_home_automation_central_heating_c/ I am also able to login remotely from...... Listed under: Home Automation Projects, LED Projects, Projects



Arduino 4x4x4 LED Cube Overview: This instructable will cover the building process of an 4x4x4 LED Cube. I will be using an Arduino to control the LEDs. Since the Arduino (Freeduino) has a total of 20 pins (including the analog pins) we will not need to have any multiplexing...... Listed under: Game – Entertainment Projects, Home Automation Projects, LED Projects, Projects



Color Changing Night Light with ATtiny using Arduino I wanted to create something for my wife as a present and this is what I came up with. This is a dark activated color changing night light. It has a sensor that can tell when the room light is turned off. This then will...... Listed under: Game – Entertainment Projects, Home Automation Projects, LED Projects, Projects



LED Dot Matrix Display using an Arduino In this project, you shall again use two sets of shift registers. These will be connected to the rows and columns of the dot matrix display. You will then show a simple object, or sprite, on the display and animate it. The main aim of..... Listed under: LED Projects, Projects



Simple Relay Shield for Arduino Shield to control 6 relay, 6 digital input and 6 analog input with Arduino Duemilanove, Arduino UNO. The digital inputs and relay outputs are equipped with an LED that indicates the status. The circuit diagram is very simple: Step 1: Schematics and PCB In this..... Listed under: Development Board – Kits Projects, Projects





Squirt – Arduino, motion activated water cannon Squirt is a motion activated water cannon using Arduino. This was designed for use in the garden but as it's winter we tested it in the bathroom. It works! True motion tracking is expensive and complicated so this system activates when the victim moves into...... Listed under: Home Automation Projects, Motor Projects, Projects

Arduino Pedometer Problem: So my nutritionist (doesn't everyone have a nutritionist) suggested I should increase my exercise which primarily consists of walking my dog, She even gave me a chart of activities and calories burned. Here's an example. http://www.nutristrategy.com/caloriesburned.htm Well, being a This website uses cookies to improve your experience. We'll assume you're ok with this, but you can opt-out if you wish. ACCEPT **Read More** LAZY OLD GEEK, I decided...... Listed under: Metering – Instrument Projects, Projects





Arduino Mega Pinout Diagram Arduino Mega Introduction: The Arduino Mega is a microcontroller board based on the ATmega1280 (datasheet). It has 54 digital input/output pins (of which 14 can be used as PWM outputs), 16 analog inputs, 4 UARTs (hardware serial ports), a 16 MHz crystal oscillator, a USB...... Listed under: Featured, Pinouts



Traffic Lights Beginner Arduino Project This is a beginners project for the Arduino. I am using the Arduino Uno but should work with little or no modification on other arduino models. Setting up the hardware is very easy. This project is more of a training tool for learning how to program...... Listed under: Car Projects, LED Projects, Projects



Arduino + Temperature + Humidity A simple temperature sensor using one LM35 Precision Temperature Sensor , Humidity Sensor and Arduino, so you can hookup on your future projects. The circuit will send serial information about the temperature and humidity so you can use on your computer. I have taken data..... Listed under: Projects, Temperature Measurement Projects



Marble Disorder – a marble maze simulator with tilt switches using Arduino Marble Disorder is a borderline case of Marble Madness 🙂 It simulates a marble maze by sensing the box's orientation with 2 tilt switches. Stop the press: there's a new and more intuitive version that doesn't require the spin knob (See video). I keep documenting the original..... Listed under: Game – Entertainment Projects, Projects



Turing Alarm for Arduino NOTE: This Instructable is currently incomplete. I will finish it before September 19. I started this project after seeing Nick Johnson's Turing Alarm clock. I found that the PIC chip he used was a little too advanced for me, so I decided to use the..... Listed under: Projects, Security – Safety Projects



Arduino Electronic Dice using random numbers This instructable will show you how to make an electronic dice with minimal experience using 7 LEDs, resistors, jumper wires, and of course the arduino (or arduino clone). I wrote this instructable for anyone to easily follow along and learn more about the arduino. Questions..... Listed under: Development Board – Kits Projects, Projects

508. LED Hat Display with Pong using an Arduino A while ago, as my first microcontroller project, I made a Pong game on a 5x7 LED display, but then nothing became of it. Recently I was given a hard hat as part of a uniform (for an engineering competition) and told to customize it,..... Listed under: Game – Entertainment Projects, LED Projects, Projects





Temperature Control For Kitchen Appliances using Arduino In this Instructable, I will step through controlling the temperature of most kitchen appliances. As an example, I will use an old Westbend Poppery popcorn maker (aka. coffee roaster), but these same techniques will be applicable to most hot plates, coffee makers, and waffle irons...... Listed under: Home Automation Projects, Projects, Temperature Measurement Projects



Arduino Binary Alarm Clock This Instructable will show you how to build an binary alarm clock, with a touch sensor snooze button. This is my first instructable and my first real arduino project, I hope you like it! I bought an arduino a while back and I think it's..... Listed under: Clock – Timer Projects, Projects



Arduino RFID Door Lock ***Updated 8/9/2010*** I wanted to make an easy and secure way to enter my garage. RFID was the best way to unlock my door, even with my hands full I can unlock the door and push it open! I built a simple circuit with a..... Listed under: Home Automation Projects, Projects, RFID - NFC projects, Security – Safety Projects



Wireless Altoids Display using an Arduino This Instructable will show you how to modify an Altoids tin for a wireless 2x16 character display. Using an Altoids tin was inspired by the need to have a small yet protective enclosure for a pair of Xbee modules recently bought from Sparkfun. I purchased the..... Listed under: LCD Projects, Projects

513.

Fun Sun-tracking Arduino The Just-For-Fun Sun-trackerusing the Arduino and two servos. This device, along the lines of the most useless toy, is not somuch for function as it is for fun. But as with many things, you can't spell function..... Listed under: Projects, Sensor – Transducer – Detector Projects



Reaction Time Tester using an Arduino A month ago I knew nothing about Arduino and now.....my first project! Looking back, this project combines allmost all of the tutor I have read in this short period: blinking LED, push button, piezo and LCD display. A useful project for every beginner! I..... Listed under: Clock – Timer Projects, Projects



Kid's Game to Arduino Enigma Machine The technology behind Enigma machines and the work done to crack them has influenced cryptography, cryptanalysis, and computer science in general. If you're unfamiliar with Enigma machines, it's a device that was developed near the end of World War I, then used extensively by the...... Listed under: Game – Entertainment Projects, Projects

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DIY Arduino or The DIY-Duino THIS ENTIRE TUTORIAL IS ALSO AVAILABLE ON MY WEBSITE AT http://www.theparsley.com/arduino/diy/ To quote the Arduino website: "Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software. It's intended for artists, designers, hobbyists, and anyone interested in creating interactive objects or environments."..... Listed under: How To – DIY – Projects, Projects



Steering Wheel Drive R/C Car with Arduino IP Control Car was launched in 2001. I make the similar function car utilizing commercialized products. The concept of Car No.02 is to utilize commercialized products, and I am an amateur in electrical. So, do not blame me that the system is not sophisticated, i.e...... Listed under: Car Projects, Projects, Robotics – Automation Projects



Make A Digital Clock From Scratch using arduino In some point in the life of every electronics hobbyist the need to make a clock is borned, in my case it was about a month after I soldered my first part on a board, but back then I didn't have the right tools, parts...... Listed under: Clock – Timer Projects, Projects



Arduino Processing Audio Spectrum Analyzer In this Instructable I am going to show how to make a program in Processing that analyzes sound on your computer and sends data to an Arduino that controls an LED matrix to show the spectrum analysis. I will be explaining where to get materials,..... Listed under: LED Projects, Projects, Sound – Audio Projects



Plantduino Greenhouse using an Arduino This summer I wanted to combine my two loves of plant science and engineering. Thus I am constructing my very own greenhouse in my backyard. I am an undergrad, and as any former student knows, this means I move around constantly, and I am not...... Listed under: Home Automation Projects, Projects

521. Arduino Solar Tracker What is does: It searches for the brightest light source like the sun. Step 1: How it works How it works: I'd made a sensor of 4 LDRs with sheets between them The withe stips are the LDRs When the stick on top is..... Listed under: Projects, Sensor – Transducer – Detector Projects





Tyco RC Arduino Robot Wanted to make your own robot but couldn't afford the fancy H-Bridge IC's or etch your own PCB? Want a quick and dirty method of making your own wheeled robot? Then you're in luck, but if you want to make your own wheeled robot AND..... Listed under: Projects, Robotics – Automation Projects



My Arduino WordClock The initial project, and certainly the one to which many were inspired is that of Doug Jackson. http://www.instructables.com/id/The-Word-Clock-Arduino-version/ also inspired by http://www.highonsolder.com/blog/2011/1/8/arduino-word-clock.html http://www.instructables.com/id/Sleekword-clock/ Step 1: The Materials The list of materials for the board depends on how you plan to make the electronics, if you...... Listed under: Clock – Timer Projects, Projects

524.

Chicken Light Timer using an Arduino The wife is into raising chickens and now that the daylight savings is getting near she wanted a way to keep the egg laying production in high gear. According to the material that she reads, chickens will maintain their egg laying production if they get..... Listed under: Clock – Timer Projects, CNC Machines Projects, Projects

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Ultrasonic Range Finder with an ATtiny85 using an Arduino I'm here to show you how to use a HC-SR04 Ultrasonic Range Finder with an ATtiny85 as well as programming the ATtiny85 using the wonderful shield that randofo created. List of materials: ATtiny85 Programming Library Arduino Uno HC-SR04 Ultrasonic Range Finder and Library Jumper Wires Breadboard ATtiny85 Step 1: Program..... Listed under: Metering – Instrument Projects, Projects



Auto Leveling Laser Cross using Arduino So this Lazy Old Geek purchased a Laser Cross. I created a manual leveling Laser Cross to use for aligning stuff on my drill press: http://www.instructables.com/id/ManualLevelingLaserCross/ Well, being a Geek I decided to make an automated platform that adjusts automatically with an Arduino. Well, the..... Listed under: Projects, Sensor – Transducer – Detector Projects

527. Arduino 2-axis servo solar tracker What is a solar tracker? A solar tracker can increase the efficiency of a solar panel by up to 100%! It does this by always keeping the panel perpendicular to the incoming rays of sunlight. here's an equation to prove this: P = AW sin..... Listed under: Sensor – Transducer – Detector Projects





Arduino True Random Number Generator This is just a fun project I have been working on in the last little while. If you like this instructable, consider voting for it in the Arduino Challenge! Anyone who has experience with programming will have probably used random numbers in their code. These random..... Listed under: Calculator Projects, Projects

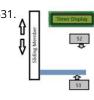


Bubble Alarm Clock Makes Waking Up Fun using Arduino Waking up to a buzzing alarm clock sucks. I'm one of those people who doesn't like to wake up before the sun is out (or has been out for many hours). So what better way to make waking up fun than having a bubble party...... Listed under: Clock – Timer Projects, Game – Entertainment Projects, Home Automation Projects, Projects

530.

Uno The Arduino Robot Age: 13 Meet Uno the Arduino powered robot. Some functions include a blinking nose, moving antennas, rotating head, IR distance sensor, twin motor gear box and rotation counters. Uno is made with relatively easy to obtain parts. This project provides a good introduction to Arduino. robot.skp475 KB Step 1: Materials Material and tools • Foam board..... Listed under: Projects, Robotics – Automation Projects





Arduino Based Auto Timer The Need: Last week around at work I had another usual un-usual problem to face with. Having to make lots of mechanisms n components to work with-in seconds or fracs at times I kind-of knew this was always coming. And invariably so my poor mind...... Listed under: Clock – Timer Projects, Projects



Carduino- A simple Arduino robotics platform with its own library This is, as the title says, an Arduino-based robotics platform, with its own library. The "standard" model with two back motors, two omni-wheels in the front, and a distance sensor mounted on the front. It also has breadboard space on top for adding whatever...... Listed under: Projects, Robotics – Automation Projects



Building a semi Smart, DIY boat with Arduino and some other sensors I based this off of this really nice instructables.com post for building a water bottle boat, with some additions for obstacle avoidance and light-guided control. I used Arduino as a microcontroller, an ultrasonic sensor in the front, a few simple switches on the side of the boat,..... Listed under: Game – Entertainment Projects, Projects, Sensor – Transducer – Detector Projects



Remote controlled webcam using Arduino Web-enable your interactive sensors over desktop, smartphone and tablet devices. This tutorial describes in detail how to use the free SensorMonkey service to remotely control a pan and tilt webcam attached to an Arduino using nothing more than a simple webpage. The webpage can be..... Listed under: Internet – Ethernet – LAN Projects, Projects, Video – Camera – Imaging Projects



Bike Speedometer using an Arduino Monitor your road speed using the Arduino. This project uses a magnetic switch (also called a reed switch) to measure the speed of one of the bike's wheels. The Arduino calculates the mph, and send this information out to the LCD screen on the handlebars..... Listed under: Metering – Instrument Projects, Projects



Waveform Generator using an Arduino Waveform generators (also called function generators) are useful for testing and debugging circuits. I often use them to test the frequency response of electronics components like op amp and sensors. This waveform generator is powered by an Arduino. It outputs four waveshapes: sine, triangle, pulse,..... Listed under: Metering – Instrument Projects, Projects

537. LED Matrix with Game Geat ellen with game for the project. Follow these steps to build a 16 x 16 LED array with a wall (different colored LED..... Listed under: LED Projects,



538. Sous-vide Arduino Shield *NOTE* THIS PROJECT IS DONE BY A GROUP OF STUDENTS FROM SINGAPORE POLYTECHNIC Sous-vide (/suëllelvield/; French for "under vacuum")[1] is a method of cooking food sealed in airtight plastic bags in a water bath for a long time—72 hours in some cases—at an accurately determined...... Listed under: LCD Projects, Projects





Audio Output using an Arduino Generate sound or output analog voltages with an Arduino. This Instructable will show you how to set up a really basic digital to analog converter so you can start generating analog waves of all shapes and sizes from a few digital pins on an Arduino. Listed under: Projects, Sound – Audio Projects



Audio Input using an Arduino Board Send sound into your Arduino. This Instructable will show you how to prepare audio so that it can be sampled and processed by an Arduino to make sound responsive projects and audio effects. (This article is a companion to another Instructable I've written about building..... Listed under: Projects, Sound – Audio Projects



DIY Arduino Motor Shield Today, I'm going to show you how to make an Arduino motor shield (driver) at a low cost. It works splendidly, its posses almost all the characteristics of the original Arduino motor shield. It's almost considered as a clone. The original Arduino motor shield has the...... Listed under: How To – DIY – Projects, Motor Projects, Projects



Arduino Board Step Sequencer I was wondering about on making a sequencer, a big 16 step sequencer was what I wanted to make. To it's full extension with lots of features including single leds for each step, midi input and output, etc. Then I realised that I should start from a..... Listed under: How To – DIY – Projects, Projects



Localizer with SIM908 module using Arduino The device is based on a GSM/GPRS module with included GPS. Its main function is to detect and communicate its own geographical position using, on the choice, the cellular phone reference system or the GPS. Its small dimensions are due to the use, for the..... Listed under: GPS Based Projects, Phone Projects, Projects



GSM GPS shield for Arduino Board Shield for Arduino designed and based on the module GSM/GPRS SIM900 or the GSM/GPRS & GPS module SIM908, to make calls, voice and data connections via GPRS. HARDWARE INNOVATIONS This new version (old Arduino GSM shield) has several new hardware features, that allow maximum customization..... Listed under: GPS Based Projects, Phone Projects, Projects



Easy Bluetooth Enabled Door Lock With Arduino + Android Thanks to everyone who supported this project and voted for it in the Arduino Challenge! I was awarded second prize and hope to participate in more Arduino contests in the near future. This tutorial will explain a simple way to make a password protected bluetooth..... Listed under: Arduino Android, Internet – Ethernet – LAN Projects, Projects

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546.



Beginners guide to building Arduino robots with Bluetooth and Android In this tutorial we are going to go over building a Arduino robot that can be controlled via bluetooth with an Android phone/tablet. This is a beginners guide that is going to briefly go over the process of wiring and programming your robot. Build list... The following is the list..... Listed under: Arduino Android



LINUSBot – Line Follower Robot using Arduino The operation of this Robot is quite simple. Infra-red sensors placed at the front of the chassis will monitor when our Robot is over a black line or when it is over a white background. In this project we will use the appropriate rounded chassis...... Listed under: Projects, Robotics – Automation Projects

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