1. **Controlling RGB LED using Arduino and Wi-Fi**

In last tutorial, we explained controlling a Robot using Wi-Fi and Arduino, and in this article we are with our next IOT Based Project- RGB LED Flasher using Wi-Fi. Here we have used...

2. **Smart Phone Controlled Digital Code Lock using Arduino**

There are many types of security systems used all over the world and Digital Code Lock is one of them. We have already covered many digital locks with simple 16x2...

3. **Smart Phone Controlled FM Radio using Arduino and Processing**

In this project we will use an existing FM radio which went repair a long time ago, to convert it into a Smart Wireless FM Radio controlled using Phone, with...

4. **Nanocounter: Frequency Counter with an Android Interface**

Here we have a good example of how a requirement for a simple tool spirals out of control and spawns a project that takes months to complete and ends up...

5. **Smart Phone Controlled Home Automation Using Arduino**

Automation is the essence of today's world. Automation can make our life easy and secure. There are many ways to obtain automation. Automation can be achieved by Wi-Fi, IR, GSM...

6. **Arduino Radar System using Processing Android App and Ultrasonic Sensor**

This is an interesting project in which we explore the power of an Arduino and Android to create a Surveillance device which uses Arduino and Ultra Sonic Sensor to broadcast...

7. **DIY Speedometer using Arduino and Processing Android App**

In this project we make a Cool Speedometer for bikes or any automotives by using Arduino which broadcast the speed using Bluetooth to an Android application that we created using Processing. The complete project...

8. **Virtual Reality using Arduino and Processing**

This is a very interesting project in which we are going to learn how to implement virtual reality using Arduino and Processing. For most of us, the movie iron man...

Welcome to another project in which we will build a small robot which can walk and dance. The project aims in teaching you how to make small hobby robots using...

10. Real Time Face Detection and Tracking Robot using Arduino

Ever wanted to build a Face Tracking Robotic Arm or Robot by simply using Arduino and not any other programming like OpenCV, visual basics C# etc? Then read along, in...

11. Arduino DS18B20 Thermometer on iOS or Android

Step 1: Introduction In this Instructable I am going to attempt to show you how to put together a little project to use the Blynk app (obtainable at http://www.blynk.cc/) to...


An AC (Air Conditioner) which was once considered to be a luxury item and was only to be found in big hotels, movie halls, restaurants etc... But, now almost everyone...

13. Interfacing Hall Effect Sensor with Arduino

Sensors have always been a vital component in any Project. These are the ones which convert the real real-time environmental data into digital/variable data so that it can be processed...

14. Cell Phone Controlled AC using Arduino and Bluetooth

In today's modern world, where ever we go we have lots of electronic devices around us. But, out of all, there is only one device that we personally have in...

15. MAGIC PIXEL – Bluetooth full color LED display

MAGIC PIXEL Magic Pixel is a universal and handy Bluetooth LED display, which we've been developing with focus on ease of use and effectiveness. It can be used for displaying...

16. IoT Thermometer Using Python

How to develop a simple but powerful IoT thermometer using a Zerynth-powered single-board MCU and the Zerynth App. Story The Zerynth App Zerynth App is a mobile application for Android...

17. AmazonDRS NFC Replenisher

You just say what the thing does and then you add "-er". Replenisher keeps your fridge, office...stocked! Just scan! "I'm going on break! Story TL;DR: This project utilizes the AmazonDRS...

18. Measure Sound/Noise Level in dB with Microphone and Arduino

Noise pollution has really started to gain importance due to high population density. A normal human ear could hear sound levels from 0dB to 140dB in which sound levels from...

19. New development board runs Arduino, Linux and Android

UDDO is a new development platform designed to be compatible with Arduino, Linux, Android and the Google 2012 SDK, its designers state that their goal was to bring together the...

20. PINE A64, First $15 64-Bit Single Board Super Computer

Update 12/14/15 (We're putting it here so it's easier to read) : To help minimize the flooding of our inbox so we can get everyone back to all the questions...
21. RedBear Duo: A small and powerful Wi-Fi + BLE IoT board

$120k Flooding-Mesh Protocol: the Duo can join as a node and also be a Wi-Fi gateway for the whole mesh network. Please check our Update #4 for more information and...

22. Mobilinkd – Highly mobile packet radio

Introducing the Mobilinkd Bluetooth APRS® TNC. With your radio, your Android phone and this TNC, you have everything you need to get started with APRS — all at a fraction...

23. ESP8266 – $5 Internet connected switch

In this tutorial we will show how to build WiFi internet connected switch connected to EasyIoT Cloud. We will use ESP8266, solid state relay and Arduino IDE. Switch can be...

24. Bluetooth enabled Door locker using Arduino

DIY Arduino based lockers can be found plenty in the internet where keypad was used to feed lock input. But this Bluetooth enabled Door locker uses Bluetooth as a medium...

25. ESP8266 DS18B20 temperature sensor, Arduino IDE, EasyIoT Cloud

In this tutorial we will show how to build WiFi ESP8266 DS18B20 temperature logger connected to EasyIoT Cloud. All material costs less than $5 on ebay. EasyIoT Cloud works also...

26. ESP8266 touchscreen WiFi light controller and clock

A couple of months ago I picked up cheap WiFi-controlled LED bulbs (one among dozens of very similar devices), after seeing them at a friend's place. This turned out to be an excuse to...

27. Robot using Arduino and Bluetooth Module (Obstacle Avoidance Robot)

This project is designed to build a robot that automatically detects the obstacle on its path and guides itself whenever an obstacle comes ahead of it. This robotic vehicle is...

28. IOT based Home automation and Security system

IOT has become huge trend in the last couple of years. With growing needs in connected devices many companies have shifted the attention to iot market. Today we are going...

29. Bluetooth enabled Door locker using Arduino

DIY Arduino based lockers can be found plenty in the internet where keypad was used to feed lock input. But this Bluetooth enabled Door locker uses Bluetooth as a medium...

30. Voice controlled home automation using Arduino

Ever thought of controlling your home using voice. If you are the one who fascinated it as I do, this project might help you do it for real. Voice powered...

31. Create an Android Controlled Robot Using the Arduino Platform
Ever wanted to make an Android controlled robot or car? Control your RC car with a smartphone? Or wanted a tutorial about connected devices and getting started with it? Now...

32. DIY Android Home Automation With Free Smartphone Application

Ever wanted to make your home automated? Wanted to control the lights, fan, and other appliances from your smartphone? Or wanted a tutorial about connected devices and getting started with...

33. Bluetooth Basics: How to Control an LED Using a Smartphone and Arduino

Ever thought of controlling any of your electronic devices with your smartphone? How about a robot or any other device? Wouldn’t it be cool to control them with your...

34. An Android Reflow controller that anyone can build

Welcome to the never ending saga of Andy and his reflow controllers. About a year ago I published a project writeup showing how I built a PID-based reflow controller. It...

35. Arduino Servo Catapult: DIY Catapult using Arduino

Use an Arduino and a servo to shoot food to your cat! (Also works with other animals). Check out the video below to see how this Arduino Servo Catapult works. While maybe...

36. Arduino DCF77 Master Wall Clock

Arduino Master Wall Clock. Time displayed on large 1” (26mm) 7 segment displays with secondary 4×20 LCD information display. The clock can be used stand alone or provides the following,..

37. Simple Android Bluetooth Application with Arduino Example

This article will detail how to make a simple bluetooth application using Android Studio and demo it using an Arduino to toggle an LED and send data back and forth. No prior...

38. Do you want to speed up to a “Long Term Evolution”? With Quectel modules it’s already possible

We’d like to share with you its parameters, as well as hints, which can make your work with this module easier – this is our biggest bonus to sale of...

39. Track and Control Your Car Remotely

Actually, many of us may suffer or afraid from being his car stolen. In this project, I will try to help you to protect your cars and even control them...

40. Control a Parrot AR Drone with Linino

Performing the control of the AR.Drone with the iOS or Android apps is really difficult. The controls are very unstable because the app virtual joystick hasn’t a good sensitivity response...

41. Universal Remote Control

The transmitter in the remote control handset sends out a stream of pulses of infrared light when the user presses a button on the handset. A transmitter is often a...
In last tutorial, we explained controlling a Robot using Wi-Fi and Arduino, and in this article we are with our next IOT Based Project- RGB LED Flasher using Wi-Fi. Here we have used...

I want use the Genuino 101 by Intel and Arduino for a project that regards health, but I want to use all the characteristics of the Arduino 101. One of...

Introduction Hi, friends. I came to this idea of controlling a door latch/lock remotely using a smartphone when I saw many people many times forget to carry latch/lock keys when...

Story Christmas is here! You've got your gift but you need to unlock it. Get your Arduino MKR1000 and your Android phone ready! New to Arduino MKR1000? You've just hit...

Story Voice-controlled Robot Voice-controlled robot is both hardware and cloud solution in one piece. The main components are: 1. Alexa Skill - to interpret voice commands and translate them to...

After developing few popular robotic projects like line follower robot, edge avoiding robot, DTMF robot, gesture controlled robot, etc. in this project we are going to develop a bluetooth controlled robo...

There are many types of Robots, from the simple ones like a Toy car to the advanced ones like industrial Robots. We have already covered many types of Robots using...

I started this project in order to get rid of various remotes at my home and build something single which could incorporate features of all of them. I got this...

We're a brand new startup with our very first project on Kickstarter. We're offering an electronics prototyping kit, compatible with the mbed online compiler. We have two processor boards (one...

The popularity of android devices is attributed to their powerful capabilities which include internet connectivity, open architecture, and several other kinds of built-in sensors. Students and other software developers are...

We built a mini-crawler robot that draws a path behind it to make interesting designs. We chose this design for a variety of reasons. First and foremost, we experimented with...

Whether he really said that or not is still up for debate. The quote appeared at the beginning of an editorial written by James E. Fawcette published in the April...
54. **Easy Bluetooth Enabled Door Lock With Arduino plus 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...

55. **Autonomous drone that you already have in your pocket**

In this tutorial I want to learn you something, maybe change your mind. And make autonomous drones available for everyone. Simple question is: What do you need to make your...

56. **Arduino Lilypad powered shoes for the visually impaired**

Anirudh Sharma, an IT Engineer from Rajasthan Technical University has developed a system that offers non-obtrusive navigation for the visually impaired. Calling it Le Chai (Hindi for ‘Take me...

57. **Swyp aims to replace all your plastic cards with one that's electronic**

Over the last couple of years we’ve seen a number high-tech cards that aim to slim down your wallet, all offering pretty similar functionality. The Swyp Card is the latest...

58. **FTDI Vinco USB Host/Device Development Platform – also for Android & Arduino**

FTDI has announced its commitment to supporting the Android Open Accessories initiative, thus allowing engineers to realize exciting new system designs that are compatible with tablets and smartphones utilising the...

59. **Simple Remote Data Plotting using Android / Arduino / pfodApp**

Simple Remote Data Plotting using Android / Arduino / pfodApp This Instructable shows you how to plot Arduino sensor data on your Android mobile and capture it for later downloading...

60. **Arduino (optic Fiber)**

I just brought a new lamp and after a week, I'm tired of looking at it randomly change colours between red, blue, green. What can you expect from a cheap...

61. **Bluetooth mobile phone accessory for Missed calls and SMS**

When at home, I do not carry my phone with me everywhere... so sometimes phone rings or an SMS comes in and I do not hear that. With the volume...

62. **Arduino 2.4 GHz Spectrum Analyser**

This article describes a simple spectrum analyser for the 2.4 to 2.5 GHz Wi-Fi band. It's based on the Cypress CYWM6935 Wireless Radio Module. Although the manufacturer doesn't recommend it...

63. **Home Automation with Android and Arduino Yun**

The Arduino Yun is a WLAN capable development board featuring an ATMega microcontroller, as well as a separate chip running a small Linux distribution, making it a perfect candidate for...

The world's first 100MS/s open source oscilloscope for iPad, Android and PC. A must-have for every Arduino and Raspberry Pi developer! SmartScope The SmartScope combines 3 high-end instruments into 1...

The Android phone that stays in your hand most of the time is useful in many other applications apart from Whatsapp, Facebook; appliances; monitor your health parameters. How it would...

UPDATES October 30, 2013 – 7PM (GMT+2) The new official name for this app is ArduDroid and it can be installed from Google Play. I changed the name to avoid...

Power Stacker is a portable, modular, USB rechargeable lithium-ion battery pack. Stark...

Smart RGB LED Strip is based on the development of our BLEduino, using the Bluetooth 4.0, and the sample code written by EF men, by mobile phone APP, to control...

Although originally announced back in August, the Creator C120 development board from Imagination Technologies can now be pre-ordered for delivery in January 2015. This capable little board can run Linux...

Long-time readers will know I’m not one to promote trendy marketing phrases and certainly ‘Internet of Things’ or IoT is right up there with the best (worst) of them. But...

Windows 10 + Android 5.1 9.7 inch IPS Retina Screen Intel Cherry Trail Z8300 64bit Quad Core 1.44GHz 4GB RAM 64GB ROM Cameras Bluetooth 4.0 A portable system which you...

Since this book was written, Arduino 1.0 was released and Google has changed the Open Accessory standard a lot. At the start of December 2011 Arduino 1.0 was released. This...

Introduction Recent innovations in the technological world have led to the introduction of some of the most sophisticated products. These products have led to the emergence of a new lifestyle...
75. Android Arduino Communication through Modbus and Rs485

In this post I’d like to describe you a project I’m working on that consists of connecting an Android development board to one (or more) Arduino slave(s) using modbus protocol.

76. Gesture control car(robot) with Arduino and Android(bluetooth)

Hi folks, Here’s an interesting project for all you creative minds out there. We are going to build an android phone controlled RC car. Nothing could be more fascinating than...

77. Arduino based Bi-color LED Matrix Flappy Bird Game

We have built quite a few projects using the Bi-color (Red and Green) LED Matrix Driver Module kits from jollifactory and have published them as instructables here. Each of these...

78. Bluetooth Controlled Robot

In this proposed system we going to construct a basic DC motored robot which we are going to control with android app easily available on google play store named bluecontrol...


(and partner-in-crime, Abbie). Now, I'm off to the next stage of my life, so I decided to build this friendship photoset for Kevin and Briton to remember our golden era...

80. Introducing CT-UNO, Cytron version of Arduino UNO

The CT-UNO combines the simplicity of the UNO's Optiboot bootloader (which load program faster), the stability of the FTDI and the R3 shield compatibility of the latest Arduino UNO R3...

81. WunderBar brings things to life and to internet

Find out the WunderBar – the OpenSensor Cloud Platform enabling to easily develop applications for the physical world. The WunderBar IoT (Internet of Things) Starter Kit from company relayr mimics...

82. Arduino Project 4: Enhancing your mini robot

You'll need these: HC-SR04 – Get this ultrasonic sensor from eBay.com.au for $2. SG90 Servo Motor – We've seen this servo selling for around $4 on ebay. Motor drive shield...

83. Arduino Fridge Magnet

Do you have a habit of leaving notes on the fridge, now take it digital and add an Arduino to it. In this instructable I'm going to show you how...

84. Portable Bluetooth-enabled scrolling LED matrix display- Part 1

LED matrix displays are great fun. They are visually charming, and readable from a far viewing distance with a much wider angle of view as compared to many other types of electronics displays...

85. SOS webinar – Looking for a powerful platform for your Linux applications
SOS Webinar @ 2014.10.29 10:00 – 11:30 CET UDOO is a powerful single board embedded SBC based on the powerful Freescale i.MX6 chip, which offers complete and powerful platform for...

86. PIN diode counters
Traditional versus PIN Diode Geiger Counter A short intro (pdf) Do-it-yourself PIN-diode counter Intro to the basics (pdf) Complete do-it-yourself instructions The "Stuttgarter Geigerle" The most simple and cheapest...

87. Arduino android projects for the evil genius
Book Description Discover how to create cool Arduino devices that “talk” to Android smartphones and tablets! Arduino + Android Projects for the Evil Genius brings two popular open-source technologies together...

88. An easy way to send your heartbeat to the Cloud using arduino
This cool (and very low price) sensor is attached on your ear and can detect your heart's pulse through transmitting infrared light and checking the absorption variation caused by the...

89. WiFi Switch board or Smart Plug with Esp8266, Attiny 85 & PIR Sensor with android app
The WiFi Arduino 85 is a small board with ESP8266 -01 module, Attiny85 micro controller and a relay. It Also has an additional header for connecting an external relay or...

90. Display Live Texts on Costume at Party w/ Scrolling LED Belt Buckle using arduino
This project shows how to send SMS text messages to a cheap scrolling LED display via an Android app and arduino with USB host shield. The project was originally inspired...

91. VOICE CONTROL CAR USING ARDUINO AND ANDROID
Hello friends, Welcome to ElectroPLUS . This is a post to show how to make voice control car using arduino and android. COMPONENTS REQUIRED: 1. Arduino uno or Induino R3 board. Hello...

92. RoboBrrd using arduino
RoboBrrd is an robot / animatronic character whose purpose morphs to mirror that of the virtual world. It is designed to be used as a tangible real world interface to...

93. ELF: The HD Video Streaming Nano Drone
"It's one of the purest open source hardware plays I've seen in a long while and it just goes to show how cool it is to be able to print...

94. An I²C Bus powered Arduino IO Expander Board controlled via Bluetooth and Android
Today we'll expand Arduino's digital resources thanks to an I2C bus equipped shield and we'll allow the management of the board via a bluetooth connection RN-42 through an Android systems...

95. 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...
Hackabot Nano: Compact Plug and Play Arduino Robot

What? Why? Hackabot Nano is a very compact many-in-one plug-and-play Arduino Robot. The goal is to help everyone build a feature-rich robot without all the messy wiring. You simply connect...

High Power RGB LED Moodlamp which syncs with Philips Hue

In this instructable the main focus lies on the software which I've created - not so much on the hardware side. You needn't to use a high-power LED for...

Bluetooth plus Infrared Controlled Robotic Arm

Hi. I'm Darren a 17 year old hobbyist, and this is the first instructable I'm posting here, so I apologize if it kinda sucks! I hope it's good enough... So...

Intro to Arduino

An Arduino is an open-source microcontroller development board. In plain English, you can use the Arduino to read sensors and control things like motors and lights. This allows you to...

Qualcomm chipset targets 4G LTE in China

SAN DIEGO – December 09, 2013 – Qualcomm Incorporated (NASDAQ: QCOM) today announced that its wholly-owned subsidiary, Qualcomm Technologies, Inc., has introduced the Qualcomm® Snapdragon™ 410 chipset with integrated 4G...

CamDrive – an open source multi-axis control for time-lapse photography

CAMdrive Hello! My project CamDrive is intended to be an open source multi-axis control for time-lapse photography. The current state of development can be traced in the CAM Drive project...

Arduino Based Automated Lighting Control

This is my second instructable. I want to share some of the basic things I made using the Arduino I am so busy lately, then I got the chance to...

Remote Control Door – Internet Your Thing

We can instantly open a door or control anything we can connect. It works from any iPhone, Android, or PC. After connecting something we want to control, download the free...

A 6-axis Inertial Motion Sensing Device

STMicroelectronics have announced the LSM6DB0, the latest addition to its iNEMO family. It packs a 3-axis accelerometer, 3-axis gyro and low energy ARM-based Cortex processor in a tiny 3 x...

Pro Arduino by Rick Anderson E-Book

So, you've created a few projects with Arduino, and now it's time to kick it up a notch. Where do you go next? With Pro Arduino, you'll learn about new tools, ...

Nvidia goes own way with 64-bit ARM CPU
Dubbed Denver, the processor will be used in the firm’s first 64-bit version of its Tigra K1 mobile processor designed for Android smartphones and tablets. This new version of Tegra...

107. **ANDROID+ARDUINO+RGB led**
   
   This is a project which makes an android app, then configure it to use it with android debug bridge or android accessory development kit. for making the android app we...

108. **Garage Remote – Arduino R. Android**
   
   The GarageUno is my first Arduino project that has resulted in a product that I actually use. It’s a garage port controller that features a 20 by 4 character LCD...

109. **Hack Your Hasbro R2D2 With an I/O Microcontroller**
   
   My wife bought me a Hasbro Interactive R2D2 Astromech Droid for my birthday a few years ago after I said how much fun it would be to hack it and...

110. **DIY Air Quality Sensing from HabitatMap and Sonoma Tech**
   
   High-precision air quality monitors are normally very expensive, but Tim Dye of Sonoma Technology is on a mission to change that. He's been working with Michael Heimbinder and habitatmap.org to create...

111. **All-Dock: Universal USB charger for Tablet, Smartphone etc.**
   
   All-Dock: The fastest docking station in the world. Works with iPhone, iPad, Android, Apple, Samsung, Sony, HTC, Kindle, Nokia, Huawei The All-Dock is the race car, the Porsche, of charging...

112. **Cortado – Zero wires. Infinite uses**
   
   An RGB LED and 3-axis accelerometer enable thousands of applications without requiring any modifications. Create a motion alarm to warn you if someone moves your bike. Get wireless notifications for...

113. **4 Servo drive CellBot which can be remotely controlled using Arduino**
   
   I started with an idea of what I wanted to do from the beginning but one attempt after another I finally got to where I am now. This robot can...

114. **Stackable USB Rechargeable Battery System**
   
   Power Stacker is a portable, modular, USB rechargeable lithium-ion battery pack. Stack them together for power hungry projects or separate them for smaller projects with this modular system. The Gerber,...

115. **BOXZ**
   
   BOXZ is an open source robot platform for interactive entertainment! We connected Arduino, Pexiglass(or cardboard) Origami and your idea together, so we can easily and quickly build a remote robot...

116. **MCUs with High-Resolution Graphics Control**
   
   The human-machine interface, once simply known as an "operator panel" or "terminal", is changing rapidly, due to the graphical, visual way operators now interact with an industrial machine or process...
Hello, this is my very first step-by-step instructable, and today, we're going to learn how the sensors in your android smartphone can communicate with your arduino. In modern smartphones, there...

Last year I was fascinated by the "How to build your own Quadrocopter" by Lenz Grimmer and decided that somehow I should try to do a similar thing. This talk...

I have always wanted to make something with my LED dot matrix display, and so when I found a old alarm motion sensor I knew just what to make, a...

Book Description Open locked doors using your smartphone. Assemble a bird feeder that posts Twitter tweets to tell you when the birds are feeding or when bird seed runs low...

Although originally announced back in August, the Creator C120 development board from Imagination Technologies can now be pre-ordered for delivery in January 2015. This capable little board can run Linux...

Hi guys, In this project we will control a DC motor with a smartphone via bluetooth. This project is great to learn more about: -DC motor -Interfacing Arduino with your...

This is a simple project of Android Bluetooth Car with Bluetooth control. Arduino controller is used To control the car used Android-device with a built-in accelerometer. Tilt forward – car goes...

udar Muthu gives a talk on Making Robots Using Android and Arduino at Droidcon India 2011 by HasGeek.

Smart RGB LED Strip is based on the development of our BLEduino, using the Bluetooth 4.0, and the sample code written by EF men, by mobile phone APP, to control...

I've had a couple of Cybots as well as the Tom robots for a number of years – every so often they get dragged out and tinkered with. Now is...

Episode 3 of AndroidTec, Formed by members thamind (Jon) chaotic (Lewis) & Computer Whiz (Jim) and introducing GuyCothal, who discusses about the amazing abilities of Arduino micro controller boards and...
Bluetooth SNES Controller for Android Tutorial using Arduino

This is in response to my much older video from my senior design project. Since then I have received several messages asking for some sort of tutorial on building a...

Arduino Robot V2 (Fast) Also Voice Controlled

This is my second version of my arduino robot after "Build your first robot". My Second version is slightly complicated as compared to my first one but offers better features...

Bacon Alarm Clock – Arduino

This is a project i came up with that was inspired by my love for bacon! This is an alarm clock that is designed to wake you up with the...

Smartphone Quick-Jack

The Smartphone Quick-Jack Solution repurposes the standard 3.5mm stereo audio jack found on most smartphones into a self-powered data channel that makes communication with these smartphones as easy as plugging...

Make Arduino Bots and Gadgets by Tero Karvinen E-Book

Want to build your own robots, turn your ideas into prototypes, control devices with a computer, or make your own cell phone applications? It's a snap with this book and...

Robo-Mobile – A Homemade Bluetooth Robot using arduino

Background This robot is one I built to learn. Before this project I did get my feet wet with a few small scale Arduino projects like an ultrasonic robot, (that...
Using Mozzi Library with 5 potentiometers using arduino

Getting Started The goal of this project was to create filters and controls to that can manipulate sound that is being generated through an Arduino. Normally Arduino can only generate...

Professional Android Open Accessory Programming with Arduino E-Book

Book Description Android Open Accessory is a new, simple, and secure protocol for connecting any microcontroller-empowered device to an Android smartphone or tablet. This Wrox guide shows Android programmers how...

Control Keyboard & Mouse Android app via Arduino

This instructable will show you how to control your computer's keyboard and mouse with an Android app via bluetooth to an Arduino BACKGROUND Ever wanted to control your computer's mouse/keyboard...

Android Accessories Made Easy With Arduino

The Android Open Accessory Protocol makes it possible for you to create custom Arduino-based accessories for your Android phone or tablet. Attend this session to learn how to get started,...

Arduino TinyScreen

TinyScreen is a tiny customizable display. Play games, get notifications from your phone and display useful information. TinyScreen is the new way to visualize your environment. With a beautiful color...

Happy Androids with Arduino Video instructions

Arduino + Android Normally smartphone events are tightly coupled to your phone device itself. When your cell phone is ringing, your phone speaker plays a ringtone. When you get a...

Hack an old iPod using an Android and an Arduino

This tutorial shows you how to use an Arduino to turn that old dusty music player into a Bluetooth controlled docking station. Even if it has a cracked screen or...

Darkness Map Data Collection Device

The Darkness Map encompasses both data collection and visualization of nighttime light levels. You can add to the map by downloading the app for iPhone or Android, but you can...

Aergia: Android controlled TV Remote(with Speech Recognition) using Arduino

Have you ever faced this situation while sitting on your favorite spot on the couch or recliner, comfortably watching your favorite TV program? You’re snugly tuck...
Tired of digging through the collection of credit, debit and loyalty cards in your wallet? Well, if you are, then you're the sort of person who might like the Plastic...

Have you ever wanted to control electronics with your smartphone? The Arduino ADK (Android Development Kit) is the Arduino Mega with a built in USB host device, ready for your...

This project was part of Multimodal Media Madness 2014, hosted by the chair for Computer Aided Architectural Design (CAAD) and the Media Computing Group of RWTH Aachen University. For more...

Here's a little show and tell of my Android controlled home automation box. It's a small extension box that's controlled by an Android smartphone. You can turn the individual outlets...

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...

Have an old toy car? I hacked mine using Arduino and an H bridge circuit to control the motors, used my Sony Z1 Android phone to control it with the...

In this project you can cover your eyes and let your smartphone navigate you to avoid obstacles, the application is mainly a DIY navigation device for blind people. I knew...

Introduction Reveals how to create Arduino devices and control them with Android smartphones and tablets Features several home automation devices for controlling home heating and lighting, locking and unlocking doors,...

In this instructable I show you how to build remote control tank with FPV camera. At the beginning I build only RC tank without FPV camera but when I was...

Hello, In this post we'll be making a Six wheel drive all terrain vehicle (ATV). These are rare and hence expensive robots (at least in India). I made this ATV...

Hey guys! I'd like to share with you the input device I created specifically to interact with AR glasses like the Google Glass, Meta, Moverio BT or with the VR...
158. How to build an Arduino WiFi 4×4 with Android Controller

RC cars can be WiFi Cars...? RC cars are cool, but cheap RC cars have limited range and can only be controlled with the particular controller that was included with...

159. GoFly – paragliding/hangliding/gliding altimeter-variometer from Your car navigation using Arduino

GoFly is a project based on PNA (car navigation devices with Windows CE), LK8000 tactical flight computer software and variometer (altimeter) external input based on Arduino board and pressure sensor....

160. How to control arduino board using an android phone and a bluetooth module

In this tutorial you'll learn how to use a bluetooth module and MIT's app inventor to create a wireless serial link between an android phone and an arduino board. Here...

161. 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...

162. DIY a JeuPong Game with an Interactive Robot using Arduino

Did you hear before about Social Robot? Did you see the Pepper Robot or Jibo robot? These kinds of robots that can hear you, understand you and make a...

163. Garage Genie – Parking & Remote Control using Arduino

The Garage Genie 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...
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...

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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...

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...

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...

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 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...

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...

This waveform generator is based on the work by Amanda Ghassaei. Waveform generators (or function generators) are used for testing and debugging circuits. e.g. frequency response of op amp or...

Introduction In recent years, portable sensor devices have gained a lot of popularity due to their ability to give you instant, accurate information about your local environment. Some of these...

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....
One of the electronics DIY kit jollFactory came up with is the Bi-color LED Matrix Driver Module Kit. This module is designed to be chain-able so that you may daisy-chain...

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 send messages from your mobile...

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...

blueShift – An OpenXC LED Tachometer

An Arduino, some addressable LED’s, a bluetooth module, code and a 3D printer come together to make blueShift – An OpenXC LED Tachometer. blueShift is so named for the Bluetooth...

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...

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...

DNFC Tag: the Pre-Eminent NFC Tag that Interacts with MCU

Hi, Indiegogo, we are ElecFreaks. We are proud to bring about the Dynamic Near Field Communication tag (DNFC tag), an invention that who especially tech nerds and DIY lovers have...

Barobot: A Cocktail Mixing Robot

A beautifully designed robotic bartender capable of producing perfect drinks every time, with technology that brings people together. Introducing Barobot Barobot is an open source device that pours cocktails by...

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...

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...

Portable and cloud-based heart rate tracker

In his blog, Charalampos describes his experience with SeeedStudio’s Grove Ear-clip Heart Rate sensor and Cosm (former Pachube) cloud service. The employed sensor is quite cheap and can detect heart pulses from the...

Building the YHlis EOS Controller using Arduino
The YaNis EOS controller is a device that allows you to wirelessly control your Canon DSLR from your Android phone. That's really exciting here is that the Android interface allows...

**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...

**Voice Activated Arduino (Bluetooth + Android)**

Control your Arduino with voice commands using an Android smartphone! Before we make a voice activated home automation system, we must first learn the basic principles of the experiment. This...

**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...

**Android ADK2012 is here and is powered by Arduino technology**

ADK2012 board Google has unveiled at Google IO their new Accessory Development Kit for Android mobile phones and tablets, the ADK2012 The ADK2012 is based on the upcoming Arduino Due...

**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...

**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...

**SensoDuino: Turn Your Android Phone into a Wireless Sensors Hub for Arduino**

UPDATES Nov 23, 2013: SensoDuino 0.160 gets a face left. Nov 19, 2031: OPINION: The Amazing Synergy Between Arduino & Android. Nov 19, 2013: SensoDuino 0.159 is out. Android phone date (y,m,d) and time...

**7 Bi-color LED Matrix Scrolling Text Display**

Here, we show how a 7 Bi-color 8×8 LED Matrix Scrolling Text Display is built, in which messages and commands can be sent to it via Bluetooth using an Android...

**Web Controlled Arduino LED**

This instructable shows you how to build a Web-enabled tri-color LED based on an Arduino and the WIZnet Ethernet shield, controllable from any Web browser. Check the live demo...

**Android Bluetooth Control Led RGB**

Choose the hue of light that makes you feel more comfortable. Simple bluetooth remote control from which you can modify lighting from your mobile device or tablet. You have two...
Dorm rooms are notorious for their dreadful lighting, so I wanted to make a cool alternative light source for my room at school. I made it phone controlled so there...

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...

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Most IT companies participate in the race to grab people's wrist. A smart watch becomes the most significant item in a wearable device category. You can easily find this mood..

An Arduino is an open-source microcontroller development board. In plain English, you can use the Arduino to read sensors and control things like motors and lights. This allows you to...

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...

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...

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...

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Diyouware TwinTeeth: The PCB mini-factory

LSF0204 breakout board: a bidirectional, multi-voltage level converter!