

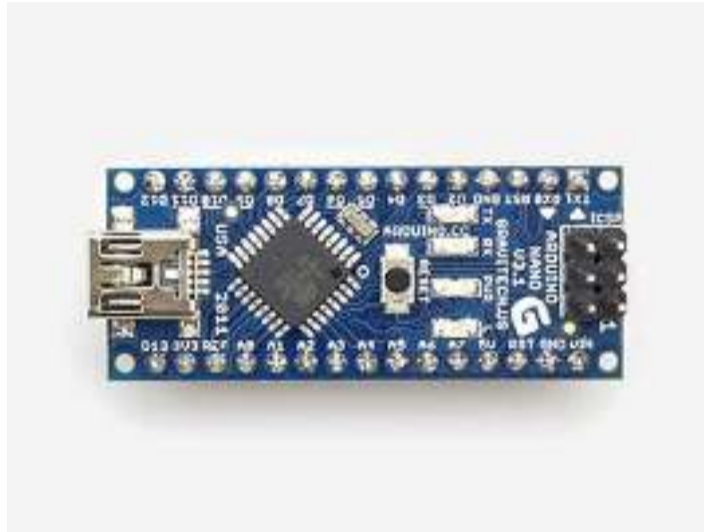


Use Arduino for Projects








Arduino Nano Projects List

Arduino Nano Projects:

It is a ATmega328 based small and breadboard compatible **arduino** board. The *Arduino Nano* is a small, complete, and breadboard-friendly board based on the ATmega328. It has mostly same functionality to **Arduino** Uno but without DC power jack and works with a mini-B USB cable instead of standard one.



Below is the list of some interesting **projects** using **arduino nano**.

1.  [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...
2.  [Top 10 Best Simulators for Arduino](#) In this post I will discuss about Top 10 Best Simulators for Arduino. The most popular software for simulating the circuits and embedded systems based on the Arduino microcontroller development...
3.  [CliSensio – Climate Sensing and Insect Infestation Control](#) Climate Change, a highly debated high school topic, but do we really care about it? We see politicians, scientists, researchers, philanthropists, conservationists and almost everyone blaming each other for every...
4.  [Arduino Memory Game](#) Background This is a project that was started 2 years ago which I recently decided to pick up again and finish. The purpose of the product is to test a person's ability...
5.  [DIY Hot Plate With Arduino Temperature Sensor](#) Hello, everyone, in this instructable I will show you how to make the most useful a DIY enthusiast must-have in their workshop; a hot plate for SMD reflow soldering using...
6.  [Arduino Quadruped Robot: Walks, Skims & Grips](#) I made an Arduino quadruped robot "by-hand," meaning without a kit or a 3D printer. It walks using a "long step" gait, which can be very smooth and natural looking....
7.  [Arduino NERF Ball Wireless FPV Sentry Turret](#) This project will guide you through the steps to make an Arduino based 360 degree rotating foam ball turret with full joystick wireless control, and first person view camera and...
8. [How to Control Any Drone From Your Arduino Microcontroller Using Bluetooth](#) Hello Everyone!!! In this Instructable I am going to show you how I converted my (Commercial) RC drone that uses an RC radio system into a drone that is controlled...



9. [LED Mask \(with Arduino\)](#) Hi everyone! In this Instructable I will show you how to make a LED Mask. This Mask has an incorporated microphone that will make your mouth move as you speak....



10. [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...



11. [Table Tennis Bat With Machine Learning AI \(Arduino Nano 33 BLE Sense + TensorFlow Micro\)](#) Since the pandemic started, me and my housemates bought a Table Tennis table and started playing a lot of Table Tennis. I made this project so that I could monitor...



12. [Electronic Dice With Arduino Nano](#) The electronic dice presented here, built around a tiny Arduino Nano board, mimics the dice we play in different games like snake and ladders the most popular. Plastic and wooden dice are...



13. [Wall-E Robot Arduino EasyVR3 \(Updated\) New Video With Voice Commands..Funny!](#) Whilst looking through videos on Youtube one day(Like you do) I came across a video with a Diy Arduino based Wall e, I thought wow! what a brilliant idea, I...



14. [Artificial Candle Ignited by Real Flame](#) Hello again, everyone. In this Instructable, you will see something really cool and exciting and you might not have seen such a thing yet on the internet. We will design...



15. [Automatic Food Dispenser From Arduino](#) Howdy Readers, Dispensers for pets are expensive and this fact is known to all of pet owners But as there is a saying there is always one or other solution...



16. [Cyborg Crafts: Sense Like a Cat With Whiskers – Sensory Extension Puppet](#) I adopted a cat a couple of weeks ago (Figure 2&3). To celebrate, I wanted to make a cat whisker sensory extension puppet that looks like my cat! This project...



17. [Perimeter Wire Using Matched Filter](#) Do you want to build a robot that is in an invisible enclosure? Or have you wondered how the robotic lawn mowers stay in their garden?In this Instructable I will...



18. [Custom I2C Slave Sensor/device With Arduino](#) <https://youtu.be/7uRn6D0kInY> In this Instructable, I'll show you how I managed to create my own I2C controlled device that I can then connect to any microcontroller and interact with it over...



19. [DIY Arduino Wireless Motion Alarm System](#) Hello everybody hope you're doing well, in this instructable I'm going to show you how to make a wireless motion alarm system, this device consists of a transmitter and a...



20. [Electronic Arrow Spine Tester](#) This Instructable describes the construction of an electronic archery arrow spine tester. An arrow spine tester measures the stiffness of arrows. This helps an archer to construct arrows of uniform...



21. [Halloween Pop-Up Prop](#) https://youtu.be/nJx_GmmiR7A This was my first animated Halloween prop. I found this witch at the local hardware store. It was meant to hang up by a cord and if someone came...



22. [Halloween Animated Knights](#) About a week or so after Halloween last year (pre-COVID), I happened to be in Home Depot and back in a far corner bin were several Halloween items very heavily...



23. [Tank Level Alert for Pellet Stove](#) If, like me, you have a pellet stove which does not indicate the low level of the tank, I suggest this little module which will beep when the reserve is...



24. [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....



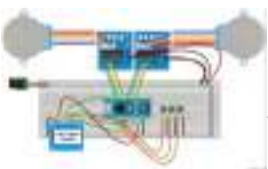
25. [A Modern Take on the Phenakistoscope](#) The Phenakistoscope is an early optical illusion device that uses static images to create the illusion of motion through the principle of persistence of vision. It is regarded as one...



26. [NeoPixel Ancient Oil Lamp](#) In this Instructable, we will describe how to turn a "retro" oil lamp into a NeoPixels based rechargeable lamp with colorful light effects. Supplies Arduino nano 12 bits NeoPixel ring Micro USB...



27. [Arduino: Portable Two-Axis Stepper Control](#) https://youtu.be/r_2DXRIM29s In a previous tutorial we have seen how to run two stepper motors synchronously from a given start position to a defined destination using an Arduino and a very simple "user..."



28. [How to Motorize a Camera Slider \(Battery Powered\)](#) When making videos with a tripod fluid head, there aren't that many movements you can do. You've got tilt and pan - so basically either a vertical movement or a...



29. [Smart Glasses\(Under \\$10!!!\)](#) Hi There! We all are familiar with Smart Glasses like the one named E.D.I.T.H. made by our beloved character Tony Stark which was later passed on to Peter Parker. Today...



30. [How I Made My Own Boxing Machine?](#) <https://youtu.be/xl0zlpL4oA> There is no amazing story behind this project - I just always liked the boxing machines, which were located in various popular places. I decided to build mine! Step...



31. [Flame the Candle by Snapping Your Finger](#) Hi guys, we will make an interesting project in this project. We will try to make a flame by snapping our finger. Let's get started on the project. Step 1: Video...



32. [Automated Arduino Tap](#) This project was designed for my dog, who refuses to drink from a water bowl. She often sits by the tap for hours waiting for someone to pass and open...



33. [DIY Arduino Bluetooth Controlled Car](#) Hello friends! My name is Nikolas, I am 15 years old and I live in Athens, Greece. Today I will show you how to make a 2-Wheel Bluetooth Controlled Car using...



34. [3D Printed Mini CNC Machine](#) Introduction! <https://youtu.be/VwgZXWHkp14> Hi Friends Welcome to the DiY Projects Lab insctructable , I hope you all are well, so today we are going to learn how to make your own...



35. [Arduino Eye Strain Alarm](#) With the COVID quarantine moving life online, I now spend many hours looking at my computer screen. Whether I'm doing school virtually, connecting with friends and family, or working on...



36. [GameBoy 5110 – Arduino Handheld Game Console by 3D Printing](#) During the COVID-19 crisis, how to spend a lot of quarantine time at home? In addition to improving cooking skills and doing sports, game lovers can also make their own...



37. [Arduino Based Self Balancing Bot](#) Hey everyone what's up! https://youtu.be/0KDyb7F0C_8 So here's my 3D Printed Self-balancing robot which is powered by an Arduino nano board and has an MPU6050 to get the accelerometer and gyro...



38. [DIY Programming Cable Using Arduino Uno – Baofeng UV-9R Plus](#) Hey Everyone, this is a simple guide on how to convert your Baofeng UV-9R (or plus) Headphone / ear piece cable into a programming cable using an Arduinio UNO as...



39. [Arduino Text I/O for Real World Applications](#) Quick Start This tutorial will take you through the steps you can use to successfully process Real World text I/O You should avoid using any Serial methods in your loop() code...



40. [DIY RGB Tube Lights](#) DIY RGB Tube light is a multi functional tube light which can be used in photography, light painting photography, film making, gaming, as a VU meter and more. The tube...



41. [Arduino Music and Game Box](#) <https://youtu.be/HSzkWiln1L0> This project was a special gift to my son Eyal, for the birth of his younger brother Itamar. It basically lets you play four games: Simon game Reaction time game Free...



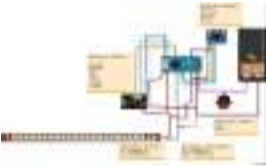
42. [Gimbal Stabilizer Project](#) How to Make a Gimbal Learn how to make a 2-axis gimbal for your action camera In today's culture we all love recording video and capturing the moments, especially when...



43. [CO2 Display](#) As its name suggests, the CO2 Display project is a small CO2 gas sensor to be plugged into USB to easily track indoor and outdoor pollution. The CO2 level is displayed...



44. [Using Ninjutsu Hand Signs \(Naruto\) to Unlock a Safe](#) <https://youtu.be/z772hGGNcqq> Naruto is a Japanese manga series written and illustrated by Masashi Kishimoto. It tells the story of Naruto Uzumaki, a young ninja who seeks recognition from his peers and dreams...



45. [Arduino Controlled LEGO RC Tank and Transmitter](#) I recently got my childhood Lego out and wanted to find a project that I could combine with Arduino and mechatronics. I started off building a digger but then realised...



46. [Think-a-Tron Mini](#) This Instructable is a standalone follow on to my recent Think-a-Tron 2020 project. You can see a picture of my Think-a-Tron "family" including the original, 2020, and Mini versions above...



47. [How to Build Your Own DigiDice | Electronic LED Dice](#) <https://youtu.be/urZDkpSwVQo> Here is an Instructable on how to build a digital dice that uses LEDs as well as an Arduino Nano to generate random numbers and display them in vibrant...



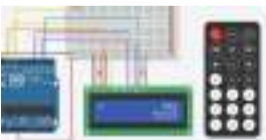
48. [Disney Magic Band Scanner](#) This is a Magic Band Scanner. It is inspired by the Magic Band Scanners that can be found at Walt Disney World. It is used at the entrances to all...



49. [Daft Punk LIVES ON! My Guy Manuel Helmet](#) WHAAAAT??? DAFT PUNK CALLED IT QUILTS ??? Daft Punk may have retired but that doesn't have to mean that you have to stop having fun with their inspiration! Here is...



50. [IR Calculator](#) Hey, welcome to my first instructable where I will be helping you create a calculator. It's basically made up of a 16x2 LCD, with an Arduino UNO that you can...



51. [Color Injection Lamp – Jumbo Size](#) I love this concept very much because kids like it very much. Now a days kids are always in mobile for study then for play and then for entertainment. Already...



52. [F1 – Rider](#) F1 (Formula One) Rider is a low-budget car. Aspiring people with inspiring speeds. The Rush of excitement is pressing accelerate. A fast Requires a sharp mind. Some cars are meant to...



53. [Measuring Refrigerant Gases Sound Speed Using Arduino and App Inventor 2](#) The purpose of this Instructable is to build a portable device that can measure the speed of sound in refrigerant gases and use this data to identify them. The speed of...



54. [Mario 64 Cake Timing Light Game](#) <https://youtu.be/nFIqSWAj8E> Welcome to my Mario 64 Cake Carnival Timing Game! The cake is modeled after the end screen in Mario 64. The active light moves around the cake in a...



55. [88888: the Electronic Smile Counter](#) This project originated from a request of a friend. He asked me to build a so-called smile counter for their college dorm - a segmented display which can show a...



56. [Voice Loudness Monitor \(Arduino\)](#) In this pandemic it is important to take reasonable measures to reduce spreading viruses. A paper from 2019 found that louder voices spread more viruses (<https://www.nature.com/articles/s41598-019-38808-z>) [Asadi et al. 2019]...



57. [Floating and Spinning Earth Globe](#) The objectives of this project were (1) to make an object float, by means of magnetic levitation and controlled by an Arduino Nano and (2) documenting the whole process allowing...



58. [Wilson – the IoT Hat](#) Hi There, Recently, I finished up on my DIY project Wilson: the IoT hat. Because of the big fun I had creating and using this IoT hat, and given the...



59. [ARDUINO AIRGUN CHRONOGRAPH](#) This is a chrono for measuring the speed and energy of an air rifle pellet. It's pretty fast and could probably be used for other types of gun, (airsoft ,...



60. [Deej – a Physical Volume Mixer](#) Meet deej! deej is a physical volume mixer. Just like the volume mixer built into windows, just physical! This means that you can change the volume of an application without...



61. [Bounce Back!](#) Responsive Pneumatic Envelop (A useless machine) Mockingly inspired by the blowfish, Bounce Back builds on state of the art bubble wrap shipping envelopes by only inflating its bubbles when frightened...



62. [Build a Robot That Creates Art](#) In this project I'm showing you how I made my own art robot. The whole concept is to illustrate how we as humans can work together and collaborate with machines...



63. [Flux Capacitor PCB Badge](#) Hey Everyone what's up! <https://youtu.be/efD6QN1S20o> So this is my "FLUX Capacitor" PCB Badge which is a replica of the actual Flux Capacitor which was in back to the future movie...



64. [Differential Thermal Analysis Using Arduino and PhyPhox](#) When a solid substance is heated the increase in energy manifests itself in the form of an increase in temperature. If the heating rate is constant the temperature increase is...



65. [The Flight Millennium Controller](#) I realized a PCB remote control in order to control remote controlled objects and more particularly an airplane. This one works in wifi 2.4Ghz, has an Oled screen, joysticks, potentiometers,...



66. [Life and Tetris and Pong...Oh My!](#) Several months ago I got a really good deal on a large 32x32 RGB LED matrix display. It matches up with the wiring interface shown on the Adafruit website for...



67. [Synchronized 2-Axis Motion With Variable Speed \(Arduino + LEDs + 28BYJ-48\)](#) https://youtu.be/liEz_sJd45E This tutorial shows how to move two stepper motors so they will synchronously arrive at defined destination point. There are many sophisticated solutions for doing this such as GRBL or Marlin. Using...



68. [Arduino – How to Read SD Card Text File Line by Line](#) In this tutorial we will learn how to read the SD card text file line by line. Watch the Video! Note: You can use other Displays such as OLED, but...



69. [Home Automation System Using Smartphone and Bluetooth Part 2 With Manual Control](#) Hello friends welcome back to "Techno-E-solution", In previous video we see how we can control the home appliances with the help of Smartphone & Bluetooth but there is no any...



70. [Tiny Whoop Drone Gate With Timer](#) I got my son a tiny whoop indoor FPV drone for Christmas, specifically an EMAX Tinyhawk II. We've had fun creating small obstacle courses in our basement, but one thing...



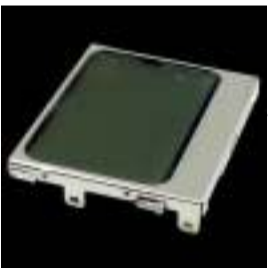
71. [DIY Current Sensor – 2.0](#) Hello there! I hope you all are fine and in good health. This instructable is about making your own current sensor that is compatible with Arduino and most other widely...



72. [Arduino Audio Sound Level Meter](#) This is add-on of the audio amplifier project result which is introduced in other instructable. (<https://www.instructables.com/PC-Speaker-Amplifier/>) Usually many types of sound level meters are directly connected with input (or rarely...



73. [Making a Prototype With Arduino \(TIM-01 EYES\)](#) I have been designing and building a robot. It got to the stage where it was time to do a head for it, but before I did the head I...



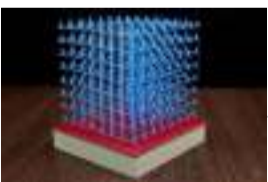
74. [Arduino OLED Spectrum Analyzer](#) Image: Today I am make an Arduino OLED Spectrum Analyzer its work with 0 to 3.3v Analog input. This is very smooth and clear Visualization of audio frequencies. This is...



75. [Tiny MatchBox LCD Display – Desktop Decor](#) Have a nice day, in this instructable I'll explain how to make a little decorative display for your desktop. It connects to your PC via USB and you can upload...



76. [How to Build 8x8x8 LED Cube](#) An 8x8x8 LED cube is a visual treat with 3D effects and patterns. It works on the concept of Persistence of Vision, a feature of the human eye which tricks...





77. [Sense Magnetic Fields Like a Bird – Sensory Extension Puppet](#) This project will show you how to create a computationally enriched puppet that can detect magnetic fields. The puppet (who I call Compy) has two very sensitive GMR analog magnetic...





78. [Sense Direction Like a Bird: Sensory Extension Mask](#) In a couple of weeks, some students will visit my lab (Craft Tech Lab) to learn more about wearable technologies. I wanted to build a quick and simple application of...





79.  [Otto Robot || Arduino Robot || Simple Arduino Robot](#) Hi, First off all Please subscribe to my youtube channel. This is the simplest Arduino robot. The name of this Arduino robot is Otto Robot. The beginners can build it with simple...

80.  [Arduino Magnetic Board](#) My first meeting with microcontrollers was a few decades ago (you might remember the first Parallax Basic Stamps) but with the Arduino platform it happened more recently, only 6 years...


81.  [*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...


82.  [Tobias – Arduino Music Box With TVout](#) First of all, let me introduce Tobias, my girlfriend's giant teddy bear, who is the inspiration for this project. Tobias has a personality, built up over time while we jokingly...


83.  [Arduino Cyclone Game](#) I have never played the real cyclone arcade game but I like the idea to play with our reaction time. I designed a miniaturized game. It consists in 32 LEDs...


84.  [Portable Fine Particle Measurement](#) The objective of this project is to measure air quality by measuring the quantity of fine particles. Thanks to its portability, it will be possible to carry out measurements at...

85.  [Tetrahedral LED Hat \(Deichkind Style\) V1](#) Do you know the German music band Deichkind? Well, I am a big fan of them and have been to several concerts. As part of their stage shows this band wears...



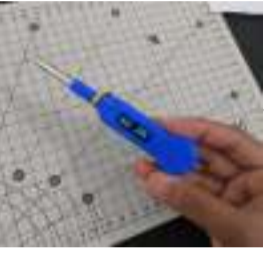








86.  [Power Timer With Arduino and Rotary Encoder](#) This Power Timer is based on the timer presented at: <https://www.instructables.com/id/Timer-With-Arduino/>... A power supply module and an SSR (solid state relay) were attached to it. Power loads of up to...

87.  [Temperature Sensor for Arduino Applied for COVID 19](#) The temperature sensor for Arduino is a fundamental element when we want to measure the temperature of a processor of the human body. The temperature sensor with Arduino must be...

88.  [LED Skateboard Rubiks Cube](#) This project uses LED lights controlled by an accelerometer and gyroscope to challenge your skateboarding creativity. The LED lights change according to what trick is being performed. For example, a...

89.  [DIY Non Contact IR Thermometer V1.0](#) Currently, we are chasing an invisible monster named Corona Virus (COVID-19) and we are going through the biggest health crisis in our time due to a sharp increase in infection...

90.  [Multicolored Light-Up Countdown Timer for Studying](#) For this project, I wanted to make something that would aid me while studying, so I made a custom timer to use for the Pomodoro Technique. This study technique involves allocating...

91.  [Tunnel Book With Pinoo](https://youtu.be/nxLPUPADWy0) <https://youtu.be/nxLPUPADWy0> Purpose of the Project: Creating a tunnel book with a light sensor (LDR) and led module using the Pinoo Control Card. Duration: 2 lessons Age Group: 7 years and older Set Used: Pinoo...
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92.  [Zoetrope With Pinoo](https://youtu.be/slY7vYLADoo) <https://youtu.be/slY7vYLADoo> Purpose of the Project: To create a Zoetrope system with the button module and DC motor using the Pinoo control card. Duration: 2 lessons Age Group: 9 years and older Set Used: Pinoo...
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93.  [Contact Digital Thermometer With Deep Sleep \[Attiny85\]](#) This might seem totally useless, considering how advance current technology can be and you might even be like "Tsk! a Thermometer?" But there is a lot of experiment based on...
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94.  [Automatic Soap Dispenser With Hand Wash Timer](#) This project I wanted to build a better and more full-featured version of my present automatic soap dispenser. Automatic Soap Dispenser V1.0 This one can be improved a lot, and...
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95.  [Improved Artwork Clock](#) Want to improved some piece of artwork? Surprise your friends by showing day time through it! You will find in this instructables the way of making the same clock I...
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96.  [IMU Controlled LED Cube \(Simon Says\)](#) Authors: Bella Lax Tianle Zhai Alex Clark With Help and Thanks To: Professor Chang-Siu (ET-370) Professor Clyatt (ET-370L) Erin Cole Cal Maritime Project Abstract: This new take on the classic...
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97.  [Stone-Paper-Scissors Game With Pinoo](https://youtu.be/J32Z-YdQCFs) <https://youtu.be/J32Z-YdQCFs> Purpose of the Project: Creating a rock-paper-scissors game with a servo motor module, joystick module, module with lcd (I2c) and distance sensor using the Pinoo control card. Duration: 2 lessons Age...
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98.  [Glowing Garden](#) For this project, I wanted to create an interaction that would seamlessly combine the natural and the digital to make a cohesive project which sparked wondering and curiosity. I was...
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99.  [Simple Arcade Button Ideas for Your Projects](#) One thing that I've always needed for my projects is a simple form of input and output. At first, it was a simple push button and an led on a...
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100.  [Measuring the Boiling Point of Liquefied Gases Using Arduino and PhyPhox](#) A substance that is in a liquid state is constantly evaporating or passing into the gaseous state (depending on the intermolecular forces and temperature). The pressure exerted by the gaseous...
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101.  [Pulse Oximeter and Heart Rate Monitor](#) Arduinos are incredibly useful tools for all sorts of projects. Given the current COVID-19 pandemic, having easy, fast, cheap, and reliable access to health information is more important than ever...

102. [Smartphone LED Controller Using Bluetooth With Own Application](#) Hello friends welcome back to "Techno-E-Solution" In this video I'll be going to show you an interesting project "Smartphone controlled LED Using Arduino & Bluetooth with Own developed Application", I...



103. [Never Lose Your Phone Again](#) Who hasn't ever left his phone on a spot and realised they had lost it too late? Anonimoconhache present you the solution: Don't Lose Me. With this amazing gadget you...



104. [Open Grow Light](#) Exactly a year ago (February 2020), James' wife wanted to expand her plant growing setup in the house. This included a bigger, larger, taller plant growing area AND the need...



105. [Predator Count Down Box](#) This is a count down timer with some flair! This project was made as part of an assignment for an online engineering course. The purpose was to have a timer...



106. [Tree Tidy – a Functional Desktop Decoration \(Prototype Build\)](#) Everyone loves a good desktop decoration. We can also agree that keeping our desks clean is great. So why not combine both? In this Instructable I'll show you how to...



107. [Automatic Toilet Flusher \(Reduce Touch, Reduce COVID-19 Infection\)](#) The place most of us like to see a hands-free toilet flusher is in public washrooms. It will be a welcome convenience – no-one wants to touch a public toilet!...



108. [JCB Machine](#) JCB Machine is very popular because it is heavy-duty construction equipment in the civil industry. JCB is also known as the backhoe loader. It can be used to load or...



109. [Automatic Missile Defence System](#) Automatic Missile Defence System destroys aerial targets like aircraft, high-altitude ballistic missiles, and low-altitude cruise missiles. Missile defense systems are really important for a nation like India which is surrounded...



110. [Let Your Plant Talk](#) In Today's Tutorial, we will learn how to make our plant talk using Arduino nano with the MP3 player module. Basically, we will connect 3 sensors to the Arduino module:...



111. [Timer With TM1637 and Arduino](#) This timer is useful in both domestic and industrial applications. It is a countdown timer programmable in the range of 1s 9999s. During this time, the load is powered...



112. [Smart Pull-Up Bar](#) Hello friends! My name is Nikolas and I am 15 years old. Today in this Instructable I'll show you how to make a Smart Pull-Up Bar which, when you start...



113. [STOP Face Touching Device](#) Why do you want to stop touching since it is part of our human nature? Well, it is all because of the virus floating around. Health officials keep telling the public to...



114. [ECG Display With Arduino](#) This ECG (Electrocardiogram) unit has an integrated display. The display can show individual heart beats in a large format, the train of heart beats in a small format and a Poincaré plot...



115. [Ez Arduino 12 DOF Quadruped Robot – Robot Dog Lassie](#) Since Boston Dynamics releases the quadruped robot - Spot, making robot dog has been very popular. There are number of attempts to build similar robot. Most are expensive and very...



116. [Wireless Mood Meter](#) Suppose your mood changes so fast that people can't cope up with it. You feel sad but people do something that makes you more sad. If only they knew what...



117. [Cardboard Spider \(DIY Quadruped\)](#) Hello again and welcome to my new project. In this instructable I've tried to make a simple Quadruped made from materials accessible to everybody. I know to get a good...



118. [Coke Machine Can Level Detector](#) Rev 2.5 - tidied up the 3D printed parts and updated the plug connector to a common PCB unit. Rev 2 - ultrasonic "button" replaces manual push-button. Pushing a button...



119. [Desktop CT and 3D Scanner With Arduino](#) Computed tomography (CT) or computed axial tomography (CAT) is most often associated with imaging the body because it enables clinicians to see the anatomical structure inside the patient without having...



120. [DIY Digital Spirit Level](#) In this project we will have a closer look at accelerometer ICs and find out how we can use them with an Arduino. Afterwards we will combine such an IC...



121. [The Ultimate DIY Automatic Fish Feeder Tier 2](#) The Tier 2 Feeder is a big step up from the Tier 1. This version uses an ESP8266 wifi module to sync the arduino's clock to control the feeding schedule and...



122. [Eve, the Arduino Chatbot](#) Hello DIYers, have there been instances when you really wanted to share your feelings with someone and no trusted one was around? In today's busy world, this is a common...



123. [Minimalist IoT Clock \(using ESP8266, Adafruit.io, IFTTT, and Arduino IDE\)](#) In this tutorial I show how you can make a minimalist clock synchronized with the internet. I tested it with two different ESP8266 based boards: Firebeetle and NodeMCU. The microcontroller...



124. [Acoustic Levitator Case](#) Acoustic levitator from Asier Marzo is a very popular thing here on instructables. I build it, it was working but I noticed couple of issues. For example: The 3D printed...



125. [Electronic Chameleon](#) Ever wondered how the chameleon changes its colour through the changes in environmental colours? There's something called Melanocyte Stimulating Hormone or MSH. If you want to dig more into this...



126. [Reaction Time Meter \(Visual, Audio and Touch\)](#) Reaction time is a measure of time a person takes to identify a stimulus and produce a response. For example an athlete's audio reaction time is time elapsed between firing...



127. [Arduino-controlled Water Rockets](#) You've all probably had a chance to do that classic high-school experiment: pop bottle rockets. You've probably taped on some fins, a paper nosecone, and presto! You launch a "rocket"...



128. [Fish Feeder 2](#) Introduction / Why this project In 2016 I build my first fish feeder, see Fish Feeder 1. The feeder worked fine for more then half a year. After that period the...



129. [Kids MP3 Music Box](#) When looking for some new DIY projects around arduino I found some nice ideas on RFID based MP3 players for Kids. And there is one great professional toy box on...



130. [10 Useful Arduino Projects to Complete This Year](#) Whether you are new to the world of DIY electronic problems or an experienced fanatic, you will have heard of the Arduino. Arduino is the perfect source of microcontrollers; not...



131. [Convert Your Old Phone to a Remote Switch](#) Ever wondered what to do with your old basic phones? The advent of a smartphone in last decade made all the basic phones obsolete. Even though they had good battery...



132. [HALO: Handy Arduino Lamp Rev1.0 W/NeoPixels](#) <https://youtu.be/byTgKfpxKo> In this instructable, I will be showing you how to build HALO, or Handy Arduino Lamp Rev1.0. HALO is a simple lamp, powered by Arduino Nano. It has a total footprint of...



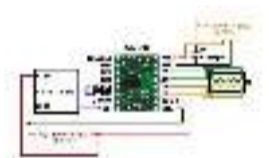
133. [\\$10 Light Up Clock for Kids – Green Means Go! Red, Stay in BED!!!](#) We were going crazy without enough sleep!!! Our 2-year-old could not understand how to "wait for the 7" on the clock before coming out of his room morning after morning....



134. [Art Deco FM Radio Project Using Arduino](#) https://youtu.be/kP_S3LuZBGA Dear friends welcome to another Arduino project Instructable! I am very excited because today I am going to show you how I built this Art Deco style FM Radio project...



135. [Simple Braille Writer \(Speech to Braille\)](#) <https://youtu.be/y-N4hqFgOtE> Hello everyone, All this started with doing a simple XY plotter after completing it successfully, I thought to develop a simple speech to braille text converter. I started searching it...



136. [Mini CNC Laser Wood Engraver and Laser Paper Cutter](#). This is an Instructables on how I made an Arduino based Laser CNC wood engraver and Thin paper cutter using old DVD drives, 250mW laser. Playing area is 40mm x...



137. [Aerobic Arduino – a \\$15 Fitness Tracker Power by an Arduino](#) Please vote for this in the fitness challenge instead of a Fitbit or a smartwatch, you can build an Arduino powered fitness tracker for only \$15! It tracks the pumping...



138. [ArduMeter: an Arduino Based Multimeter \(Sort Of\)](#) The ArduMeter is an Arduino Based Multimeter, which many people have made to perform different operations, and searching on google you could find all the variety of things it can...



139. [Make Your Own 1D Pong Game](#) For this project I will show you how I combined an MDF board with buzzer buttons, LEDs and an Arduino Nano in order to create a 1D Pong Game that...



140. [Arduino Word Clock Mini](#) Arduino Word Clock Mini- Anniversary Clock Relatively easy to build Word Clock using a Arduino Nano and four MAX7219 32mm Dot Matrix Display Modules Choice of styles, picture frame or Perspex...



141. [OLED Tutorial | Convert SPI to I2C](#) In this tutorial, we are going to learn about OLED displays. Which can be very easily interfaced with Arduino and can display important parameters for your project, and see how...



142. [DIY Miniature Solar Tracker](#) In this project I will show you how to create a solar tracker which like the name implies can follow the movement of the sun throughout the day. And at...



143. [Noise Traffic Light – DIY 3D Printed](#) All people want to work in silence and It's important to have a good working environment. The silence leads to an efficient work. We did this project to reach this...



144. [Biometric Personal Diary](#) This neat little gadget has a fingerprint sensor so you can secure your cool stuff in a personalised portable case. I use to hold a diary and pen and designs...



145. [DIY Adjustable Constant Load \(Current & Power\)](#) In this project I will show you how I combined an Arduino Nano, a current sensor, an LCD, a rotary encoder and a couple of other complementary components in order...



146. [Arduino Arcade Lego Games Box](#) If you have kids, you are likely facing the same issues as we did with the Lego sets you bought for them. They assemble and play with them but after...



147. [UltraV: a Portable UV-index Meter](#) Being unable to expose myself to the sun due to a dermatological problem, I used the time I would have spent on the beach to build an ultraviolet rays meter....



148. [Spatial Synthesizer Kravox! Wireless, Motion- & Touch-Sensing](#) A New Kind of Instrument! invented Kravox during a research project at Lund University (Sweden) with the aim to give digital musical instrument controllers the feeling of conventional, mechanical instruments....



149. [Arduino LCD Stick Man Game!](#) hey there Electronic Enthusiasts! Kids, Adults, Seniors, in fact everyone loves games! so here is another Awesome Project based on Arduino, yes its a GAME, follow this pretty INSTRUCTABLE to make...



150. [Hearing Impaired Doorbell Room Light Hack](#) Problem: my dad is registered as deaf and my mum is hearing impaired and due to this they often find it difficult to hear the doorbell. This could be a...



151. [Autostat : a Remote Thermostat](#) The question you are probably asking is "why are you making another remote thermostat?" The answer to that question is, I had to, and the market smart thermostats are too expensive. Fair...



152. [Morse Code for Kids.](#) Morse code unit for kids. Variable speed and different levels. My son goes to CUBS and has a special event coming up. This event is all about communicating with other...



153. [Bucky Touch: Light-up Dodecahedron Instrument](#) About two years ago, I built a big 120 face LED geodesic dome that plays music with a MIDI output. However, it was a difficult build and the sensors weren't completely reliable...



154. [Spooky Teddy – Arduino Powered Self-rocking Chair & Rotating Head](#) Spooky teddy is a 2-part Halloween decor. The first part is the teddy bear that has a 3d printed mechanism that can rotate with an Arduino UNO and a solenoid...



155. [Arduino Zener Diode Tester](#) Zener Diode Tester is controlled by Arduino Nano. Tester measure breakdown Zener voltage for diodes from 1.8V to 48V. Dissipation power of measured diodes could be from 250mW to a...



156. [Mug-O-Matic: a Modular Tiny CNC Drawing Robot!](#) Mug-O-Matic is a one of a kind DIY toy, a real 3-axis Tiny CNC drawing robot that can customize coffee mugs! This capable little robot can draw anything you want via...



157. [Shoe-Mounted Running Distance Tracker](#) Since runners often need to track not only their total mileage, but also the distance run on each pair of shoes (in order to know when to replace them), this...



158. [Scrolling Text Display \(A to Z Guide\)](#) In this instructable / video I will guide you with step by step instructions how to make scrolling text display with Arduino. I won't be explaining how to make code for...



159. [DigiLevel – a Digital Level With Two Axes](#) The inspiration for this instructable is the DIY Digital Spirit Level found here by GreatScottLab. I liked this design, but wanted a bigger display with a more graphical interface. I also wanted better...



160. [Glowing Ornament](#) Original glowing ornament for your Xmas tree. It's made from brass rods wired by a freeform method and contains 18 glowing LEDs. Step 1: Tools soldering ironsoldersoldering paste0.8mm brass rod18x...



161. [Ciclop 3d Scanner My Way Step by Step](#) I'm going to realize the famous Ciclop 3D scanner. All the step that are well explained on the original project aren't present. I made some fix to simplify the process, first...



162. [Radioactivity Counter \(IoT\) and Monitoring Eco-system](#) C-GM firmware last update on June, 10th 2019 with new 1.3 versionA-GM applicationlast update on Nov, 25th 2019 with new 1.3 version This D.I.Y low cost (50\$/43€) C-GM Counter project provides hardware and firmware for building a Geiger-Müller counter device aka G.M....



163. [Bell Model 202 Bluetooth Telephone \(1930-2018\)](#) Using the magic of Arduino, I revived an antique Bell model 202 telephone and added Bluetooth capability to it. There are two parts to this. On one end I have...



164. [Arduino CNC Plotter \(DRAWING MACHINE\)](#) Hey guys! I Hope you already enjoyed my previous instructable "How to make your own Arduino training platform" and you are ready for a new one, as usual I made...



165. [Dual Axis Tracker V2.0](#) Way back in the year 2015 we designed a Simple Dual Axis Tracker for use as a fun student or hobby project. It was small, noisy, a little complicated, and provoked a...



166. [Arduino Chessclock](#) I could not find instructions on a good Arduino chess clock so instead I built my own which I will describe here. Step 1: Parts list [box color="#985D00" bg="#FFF8CB" font="verdana"...



167. [WIRE CUTTING MACHINE](#) Hello friends I have made a Automatic wire cutting machine using Arduino nano controller board. Basically there are 3 process level of this machine like 1) first process is Input...



168. [LED Jigsaw Puzzle Light \(Acrylic Laser Cut\)](#) I have always enjoyed the various acrylic laser-cut night lights that others have made. Thinking more about these I thought that it would be great if the night light could...



169. [Time Delay Lock Box](#) Note from the author: In an effort to get this ready in time for the safe and secure challenge, I have had to make a few compromises to my box,...



170. [Eye Guardian: Sound Triggered Eye Protection](#) Eye Guardian is an Arduino powered, High-Decibel continuous sound triggered eye protection wear. It detects heavy equipment sound and lowers protective eye goggles while the equipment is in use. Outline...



171. [RGB LED Backlight + MSGEQ7 Audio Visualizer](#) Welcome to my Instructables on how to build a RGB LED backlight for e.g. the back of your TV or desk. The Schematic itself is very simple since the WS2812 LED Strips are very...



172. [DIY Cycle Speedometer](#) This project came to my mind when doing my MEM (Mechanical Engineering Measurement) project, a subject in my B.tech. The idea is to measure the angular velocity of my bicycle's...



173. [Ever Blooming Mechanical Tulip](#) Everlasting flower for your everlasting love. A perfect not-only Valentine's day gift to your loved one. This mechanical tulip will bloom into any color possible with just gentle touch of...



174. [VORONOI HEART LAMP](#) Hi makers, we are here again with a beautiful and stylish lamp Project. VORONOI HEART LAMP. In this project, we benefited from epoxy resin material and 3D printer. <https://youtu.be/0SoN9cphUrl> Step...



175. [Clock, Amplifier and a Little Amount of Wood...](#) The beginning of the project came from an idea, an inspiration from a video posted on the Internet on the YouTube channel "I like to do things" ... Then came...



176. [DIY Cheap and Sturdy Laser Engraver](#). In this instructables I will show you how I made my own DIY laser engraver for very cheap. Also most of the parts are either salvaged from old things or...



177. [Dutch 8x8 Neopixel Word Clock](#) A friend introduced me to neopixels (WS2812) programmable LED's. That would be great for my word clock, so I re-did the clock. It is very much a mixup with a...



178. [Portal 2 Turret – Master Turret Control](#) This project is an extension or remix of my original Portal Turret on Instructables (Portal-2-Turret-Gun). It can also be used as a cheap controller to control anything that uses the...



179. [Smart Coffee Table](#) We are in the joy of making a project that has been in our mind for a long time and sharing with you. Smart Coffee Table. Because this table is...



180. [Robotic Rat](#) Hello! My name is David, I am a 14-year-old boy living in Spain and this is my first Instructable. I have been building robots and fixing old computers for some...



181. [Motion Sensing Under Bed Lighting](#) Ever tried to get out of bed quietly at night only to trip over something and wake up the whole house? Motion sensing night lights installed discreetly under your bed...



182. [DIY Mini CNC Laser Engraver](#). <https://youtu.be/ZeAug4SNUSI> This is an Instructables on how I Remixed my old CNC Laser engraver and made a Stable version of an Arduino based Laser CNC engraver and thin paper cutter...



183. [DIY Arduino Mini Laser Engraver](#) Hello Guys Whatsup, In this instructable, I am making an Awesome mini laser engraver from old DVD writers. It's an amazing machine. You can use this laser engraver machine to...



184. [Persistence of Vision \(PoV\) Display Using Arduino](#) Time for a fun-filled, easy-peasy Japan-easy to make a project! Today, we're going to show you how to make an LED POV Display. POV, an acronym for the persistence of...



185. [Desktop Gigapixel Microscope](#) <https://youtu.be/mKXoA6zDu98> In optical microscopes, there is a fundamental trade-off between field-of-view and resolution: the finer the detail, the smaller the region imaged by the microscope. One way to overcome this...



186. [Electronic Magic 8 Ball and Eyeball](#) <https://youtu.be/e5p-RsFV5iA> <https://youtu.be/S2ajD3oJD34> <https://youtu.be/uaUTn9RBmPg> I wanted to create a digital version of the Magic 8 Ball... The body of this is 3D printed and the display has been changed from an...



187. [Stroboscopic Fountain](#) For our SIDE project, a year long project that we do for Ms. Berbawy's Principles of Engineering class, we decided to make a stroboscopic fountain. The stroboscopic effect, pioneered by...



188. [Arduino Powered, Sensor Controlled Fading LED Light Strips](#) https://youtu.be/mzeA3yxu_lg <https://youtu.be/jH2gEoB5x1w> I recently had my kitchen updated and knew that lighting would 'lift' the look of the cupboards. I went for 'True Handleless' so I have a gap under...



189. [Simple Arduino RGB LED Cube \(3x3x3\)](#) <https://youtu.be/raGzxHcS7NA> I've been looking into LED Cubes and noticed that most of them were either to complicated or to expensive. After looking at a lot of different cubes, I finally...



190. [Doggo Walking Light](#) Walking a dog in the dark comes with the safety risk of motorists who don't see you walking, we've had a few close shaves with drivers turning quickly into or...



191. [Motion Follow Animatronics Eyes](#) <https://youtu.be/Ep9fWQiFmoM> This Arduino project uses an Optical Flow Sensor (ADNS3080) to capture movement. Then translate the data to move servo's making it look as eyes are following moving object. This...



192. [DIY ARDUINO BLUETOOTH CONTROLLED CAR](#) 😊 Hello, Guys! In this instructable tutorial, I'm going to make an Arduino nano based smartphone (Bluetooth) controlled car. All we know that Arduino is an excellent prototyping platform, principally because...



193. [DIY LED-photometer With Arduino for Physics or Chemistry Lessons](#) Liquids or other objects appear colored because they reflect or transmit certain colors and in turn swallow (absorb) others. With a so-called photometer, those colors (wavelengths) can be determined, which are...



194. [Animated Word Clock](#) Build your own Word Clock with an animated display. This is a simple project uses an Arduino Nano, Color LEDs and includes a stylish 3D Printed Case. The Word Clock...



195. [Home Presence Simulator and Security Control Device](#) This project allow us to simulate presence and to detect movements in our home. We can configure a network of devices installed in differents rooms of our home all of...



196. [Tim's Cybot Arduino NANO Remote Control](#) This project is to create an Infrared Remote Control to control the Original Cybot received with the magazine Ultimate Real Robots, started back in 2001. Reason for making the remote:(a...



197. [Condensation Risk Evaluator](#) Hi everyone, I work as a builder even though I've been always really interested in new technologies. I've learned a little about 3d printing, Arduino and electronic issues reading a...



198. [PKE Meter Geiger Counter](#) <https://youtu.be/Vs8IQ5SYb7U> I have been wanting to build a Geiger counter for a long time to complement my Peltier Cooled Cloud Chamber. There is (hopefully) not really much useful purpose in owning...



199. [Iron Man's Arc Reactor That Pulses With Your Heart Beat](#) <https://youtu.be/bnX99E5VdHI> There are lot of DIY arc reactors out there that look pretty cool. Some look realistic too. But why build something that just looks like that thing and does...



200. [Totally Lit – Programmable RGB LED Acrylic Sign](#) <https://youtu.be/AcvgpUQGpN4> Been playing around with the laser cutter/engraver, and really fell in love with engraving in to clear acrylic and shining a light source from the edge. The thickness of...



201. [Dev Board Breadboard](#) This Instructables show how to create a tailor-made breadboard for dev board. Step 1: Current Breadboard Breadboard (solderless breadboards) is a very import component for prototyping of electronics. It can...



202. [Portable Arduino Bot](#) Over the years, I have built many robotic projects and most of it run by an Arduino so let me explain a little bit about this amazing technology. Arduino is...



203. [Cyclone\(Arduino LED Game\)](#) In this tutorial, I will teach you how to create an LED game with very little code or experience! I had this idea for a while and finally got around...



204. [How to Make an Arduino Weather Station With DHT11 Temperature and Humidity Sensor](#) Recently I started playing around with DHT11 Temperature and Humidity sensor, at that time around, I had an idea to make a small yet effective Weather Station, so in this...



205. [Color Instrument](#) This is a simple Arduino/3D printing project about colors and sounds. I made this device or as I call it 'color instrument' for activity for kids. It's fun and it's a...



206. [FM Radio](#) <https://youtu.be/oNqWfiP2yg0> Recently, I came across RDA5807 module which is an FM Radio Tuner in a very tiny package. It is very cheap and uses I2C protocol for communication which means that only...



207. [Escape Room Decoder Box](#) Escape Rooms are awesomely fun activities which are highly engaging and great for teamwork. Have you ever thought about creating your own Escape Room? Well with this decoder box you...



208. [Infinity Gauntlet Controlled Home Automation](#) <https://youtu.be/-H7YejeUWbI> In my previous project i have made an infinity gauntlet that control a light switch. I wanted to use six stones and each stone can control appliance, door lock, or...



209. [Save Water & Money With the Shower Water Monitor](#) Which uses more water - a bath or a shower? I was recently thinking about this question, and I realized that I don't actually know how much water is used...



210. [Flip-It! – the World's Dumbest Game?](https://youtu.be/1QCvIQLj2JA) <https://youtu.be/1QCvIQLj2JA> Origins: This is a game I developed over a couple of years 2018-2019 It was originally called "Stupid Flip" and came out of my interest in creating simple and...



211. [E-dice – Arduino Die/dice 1 to 6 Dice + D4, D5, D8, D10, D12, D20, D24 and D30](https://youtu.be/B-dnzLoZDIw) <https://youtu.be/B-dnzLoZDIw> This is a simple arduino project to make a electronic die. It is possible to choose for 1 to 6 dice or 1 out of 8 special dice. Choice...



212. [The 'Do More' Timer, Inspired by Casey Neistat](https://youtu.be/anUKywfO_I8) https://youtu.be/anUKywfO_I8 Summer, the lovely season when things happen. But sometimes we tend to forget the time. So to remind us the time left , I designed this Casey Neistat's 'Do...



213. [3D Printed Arduino RC Airboat With Controller](#) This is a project that combines the knowledge of 3D printing and Arduino. It is a good beginners project for anyone interested in making their own RC boat or just...



214. [\[DEPRECATED\] Arduino-Based Smart Glasses by a 13-year-old – Jordan Fung's Pedosa Glass](#) We have developed into Pedosa Innovation, a tech start-up founded by the developer of Pedosa Glass. We have continued to develop wearable technology, in addition to cloud infrastructure and STEM...



215. [Sound Detection RGB Lamp Using Arduino](#) Hello, In this project I am making a lamp with multiple colors using RGB leds. My idea is to try to let the lamp change color if it detects a...



216. [Fish Feeder 2](#) Introduction / Why this project In 2016 I build my first fish feeder, see Fish Feeder 1. The feeder worked fine for more then half a year. After that period the...



217. [Peggy – Arduino Portable RF Rain Tracker](#) My country mild climate lets the sun to shine for the greatest part of the year, then tumble driers are not widely used and so we often use to drain...



218. [DIY | Ambilight Using Arduino Nano](#) In this Instructable I will be teaching you how you can create your own (b)ambilight for under \$40!Keep in mind that the Ambilight will only work on a PC running...



219. [Distinguish Walking and Running Using Machine Learning](#) Electronic market is full of devices called pedometer and fitness tracker. They counts the number of steps you have taken, distance you have covered, whether you are walking or running...









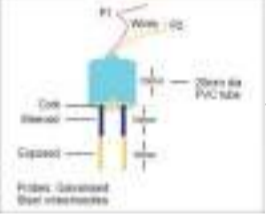


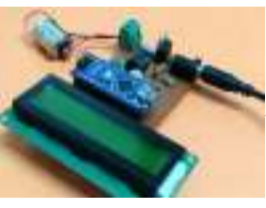


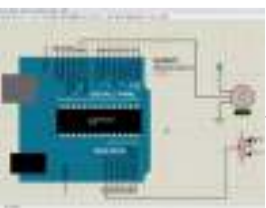

220. [SparkRover – 3D Printed Smartphone Controlled Robot](#) Over the years, I have built several large robots using a custom-made robotics driver that I created called the SmartRover system. This driver was initially used for my SmartRover robot...
















221. [How to Make a Remote Controlled Robotic Hand With Arduino](https://youtu.be/efO-ooyS-mo) <https://youtu.be/efO-ooyS-mo> This is my school project for the 5th year of high school (I'm Italian, we have 5 years of high school). It consists in an artificial hand controlled by...



222. [Program Your Arduino With an Android Device Over Bluetooth](#) Hello world, in this Instructable I want to show you, how to program your Arduino Uno with your Android device over Bluetooth. It is very simple and so cheap. Also...

223.  [Make Your Own Motorized Camera Slider](#) In this project I will show you how I repurposed two old camera tripods in order to create a motorized camera slider. The mechanical system consist mostly of aluminium and...
224.  [JolliCube \(8x8x8 LED Cube\) With MD_Cubo Library](#) So far, we have only built 3 LED cubes. Our first cube is a 4x4x4 LED cube and though we managed to successfully complete it without too much difficulty, we...
225.  [Arduino Nano to Arduino Uno Adapter](#) Arduino Nano is a nice, small and cheap member of the Arduino family. It is based on the Atmega328 chip, what makes it as powerful as the biggest his brother...
226.  [Control your Human-Like Robot from Anywhere you Are!](#) Buto is my 'real steel' robot project. Now, BuTO has been connected to the Internet and can be controlled remotely. Things used in this project Hardware components Arduino MKR1000 x...
227.  [Solar UPS controller/automatic transfer switch](#) Get your essential appliances off the grid with just one solar panel Things used in this project Hardware components Particle Spark Core x 1 Arduino Nano R3 x 1 Arduino...
228.  [DC Power Meter for 0-55V 20A Work Bench Power Supply](#) This project describes how to make a low-cost DC power meter that can be used for displaying Voltage, current, power and the running time of operation. This is useful and...
229.  [Digital Soil Moisture Meter](#) A digital soil moisture meter is used for indicating the water content of a given soil sample. [caption id="attachment_31551" align="alignright" width="300"] Soil moisture sensor head[/caption] As crop production requires water...
230.  [Record and Play 3D Printed Robotic Arm using Arduino](#) Record and Play 3D Printed Robotic Arm using Arduino Robotic Arms have proved themselves useful and more productive in many applications where speed, accuracy and safety is required. But to...
231.  [DIY Self Balancing Robot using Arduino](#) After being inspired by RYNO motors and other self balancing scooters from Segway, I always wanted to build something similar. Thinking for while, I decided to build a Self Balancing Robot...
232.  [Arduino Wattmeter: Measure Voltage, Current and Power Consumption](#) As electronics engineers, we always depend upon meters/instruments to measure and analyse the working of a circuit. Starting with a simple multimeter to a complex power quality analysers or DSOs...
233.  [Interfacing nRF24L01 with Arduino: Controlling Servo Motor](#) Arduino NRF24L01 Tutorial to Control Servo Motor While Internet of things (IoT), Industry 4.0, Machine to Machine communication etc are getting increasingly popular the need for wireless communication has become...
234.  [ARDUINO NANO ANDROID ROBOT PROJECT QIK2S9V1 XBEE BLUETOOTH](#) Android robot project built on the Arduino Nano sumo the Sumo robot motor control Qik2s9v1 dual serial motor controller module, Xbee for communication via your Android phone with Bluetooth module...
235.  [ARDUINO LIBRARY FILES PROTEUS](#) The Proteus simulation program works especially well for testing microcontroller projects, but at least it gives some insight. Proteus libraries for Arduino Arduino Proteus Models Proteus Arduino Mega1280 Proteus Arduino...
236.  [ATEL ARDUINO COLORED CONNECTION CHART](#) Projects or schematics, drawings that will work when preparing pcb Atmel AVR Microprocessors Information Tags for "Share" drawings directly on Atmel microcontrollers. Colored linking expansions are more comprehensible for those...

237.  [Wi-Fi Power Toggler](#) Restores your Wi-Fi connection for you, so you don't have to, and keeps a track of how often this is done. Things used in this project Hardware components Arduino MKR1000...
238.  [Arduino Solar Tracker Using LDR Sensor & Servo Motor](#) Arduino Solar Tracker Solar energy is one of the fastest growing industries in the world; today more than 65 GW energy is produced by solar power. Since solar energy is...
239.  [Ultrasonic Blind Walking Stick Using Arduino](#) Ultrasonic Blind Walking Stick According to the WHO, about 30 million people are estimated to be permanently blind worldwide. These people are totally dependent on others. They even cannot walk...
240.  [Automatic Railway Gate Control Using Arduino & IR Sensor](#) About a million people have died over the past 5 years in unmanned railway crossings all over the world. At least 1/3rd of the railway crossings are unmanned due to...
241.  [Simple Robotic Arm Project Using Arduino](#) Nowadays, manual labor is being reduced at big scale industries and factories to increase efficiency and gain profit by installing robots that can do repetitive works. A onetime installation of...
242.  [Water Level Indicator Using Arduino & Ultrasonic Sensor](#) Water Level Indicator Using Arduino Wireless Water Level Indicator Using Ultrasonic sensor & Arduino is an amazing and very useful project. The objective of this project is to notify the...
243.  [DC Motor Speed Control Using Arduino & PWM](#) Speed control of DC motor with PC Interface is an easy DIY project. In this project DC motor's speed is controlled by sending the command through PC. Arduino is directly...
244.  [Project: Car Speed Detector Using Arduino](#) Car speed Detector Project In this project I am going to show you how to measure the speed of running car (or man) from outside. Police department uses this type...
245.  [Project: Gesture Controlled Mouse \(Air Mouse\) Using Arduino & Accelerometer](#) AIR Mouse is also called gesture-controlled mouse and it works based on hand gesture. In this project an accelerometer is used for measuring the tilt of hand in X and...
246.  [DIY: Measuring Wheel/Surveyor's Wheel Using Arduino & Rotary Encoder](#) DIY: Measuring Wheel/Surveyor's Wheel Using Arduino & Rotary Encoder A surveyor's wheel may also be known by other names like: clickwheel, hodometer, waywiser, trundle wheel, measuring wheel or a perambulator...
247.  [Project: Auto Intensity Control Of Street Light Using Arduino](#) Auto Intensity Control Of Street Light Using Arduino In this project, I am going to show you how to control the intensity of LED lights according to the time and...
248.  [Project: Home Automation Using IR Remote Control](#) Arduino-Remote Control Home Automation In this project, we are going to show you how to control home appliances using a TV Remote. This same principle can be applicable in offices...
249.  [Arduino Nano Tutorial – Pinout & Schematics](#) Arduino Nano Pinout The Arduino Nano, as the name suggests is a compact, complete and bread-board friendly microcontroller board. The Nano board weighs around 7 grams with dimensions of 4.5 cms...
250. [DIY Time Control Machine](#) This project is about how to make a time machine! This machine looks like a glove, and can "stop" any moving subject. At first, watch a video with some demonstration...



251. [Temperature Controled Charcoal Smoker](#) Use an Arduino MKR1000 to maintain a constant temperature in a charcoal smoker and allow monitoring over Wifi, Things used in this project Hardware components Arduino MKR1000 × 1 5V...



252. [MKR1000 Universal Remonster!](#) WiFi connected universal remote with smart phone webapp. Things used in this project Hardware components Arduino MKR1000 Arduino Nano R3 General Purpose Transistor NPN Triggers the PNP transistors of IR...



253. [Create a Private Chat Room using Arduino, nRF24L01 and Processing](#) Creating a Local Network to share personnel and confidential data's has become almost impossible for a common man in our modern world. This is mainly because all common chat methods...



254. [0-24v 3A Variable Power Supply using LM338](#) Batteries are generally used to power up the Electronic Circuit and Projects, as they are easily available and can be connected easily. But they drained off quickly and then we...



255. [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...



256. [Arduino based Bluetooth Biped Bob \(Walking & Dancing Robot\)](#) 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...



257. [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...



258. [Smart Blind Stick using Arduino](#) Ever heard of Hugh Herr? He is a famous American rock climber who has shattered the limitations of his disabilities; he is a strong believer that technology could help disabled...



259. [Cyclfix: Exercise Powered Entertainment](#) Now that the cheesy title has pulled you (Fitfix was taken and I didn't want to be sued) I'll tell you about the project, it uses a stationary exercise bike...



260. [Controlling Robot Over Bluetooth Using Xbox Steering Wheel](#) So I'm guessing that I'm like a large amount of people on this site that are low key hoarders, keeping anything they could turn into a project or salvage for...



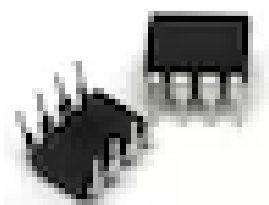
261. [2 Players Competition/Quiz Buzzer Box System Using Arduino](#) Story A bit of background. My brother came to me with an odd box that a friend of his asked someone to make so that they can determine the fastest...









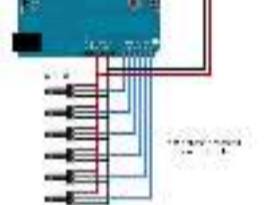


















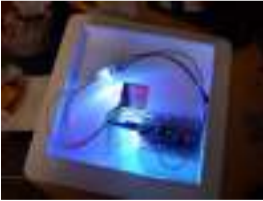

262. [Zoned Climate Control with MediaTek's LinkIt™ Smart 7688](#) Hardware components: MediaTek Labs The MediaTek LinkIt™ Smart 7688 platform × 1 Everything ESP ESP8266 ESP-01 × 1 Arduino Nano R3 × 1 Atmel ATTiny85 × 1 DHT22 Temperature Sensor...



263. [IR Controller for Air Conditioner](#) Hardware components: Atmel ATTiny85 × 1 Everything ESP ESP8266 ESP-01 × 1 Arduino Nano R3 × 1 STORY My goal is to make my window AC units more functional....



264.  [OH HAI! on Windows 10 IoT Core](#) Oh, Hai Hai ('hi') is an integration point for several stand alone smart home technologies. Hai runs on the Raspberry Pi and can be adapted to optimize electricity consumption (lighting/HVAC)...
265.  [Arduino Nano: Flame Sensor With Visuino](#) Recently somebody asked for tutorial on Infrared Flame Sensor. It took a while due to severe work overload, but finally I succeeded to make it. The Infrared flame sensors use...
266.  [Stunning RGB light effects using Arduino Nano](#) None of us could deny the fact that we would love with to play with LED's and lighting stuffs. I love to play with LED's and create attractive lighting effects....
267.  [DIY Arduino Tutorial: How to Automate Your Curtains](#) This Arduino Curtain Automation project will let you automate your curtain blinds using just an Arduino and a stepper motor. I just moved to America pursuing my higher studies. Because...
268.  [Arduino Wheelchair Project: Motorized Controller Mount](#) This was an Arduino wheelchair project we developed for Principles and Practices of Assistive Technology (PPAT) in Fall 2016 at MIT. We made an Arduino-based motorized wheelchair controller mount for...
269.  [Knock To Open Treasure Chest](#) Preface My daughter asked me to build her a treasure chest that she could use to store her most valuable things. Obviously she demanded it to have some kind of...
270.  [Humidity Display of Date, Time and Temperature](#) Story Have you ever wanted to make your own interface that can display the time, date, along with the temperature and the humidity? Well it's a lot easier than you'd...
271.  [Complete Digital Clock including Alarm and Motion Sensor](#) I have done several designs of digital clocks for Arduino using LEDs and LCD displays, but this one is more special because I added other features like alarm and motion...
272.  [How to Make an LED Scrollbar](#) In this tutorial, we are going to build an LED Scroll Bar as shown in the image given below. The project is designed to flash Ten LED strips (by...
273.  [Small Arduino DMX controller](#) In this post we show you how to make a small and useful Arduino DMX512 controller, which can use by example to handle a smoke machine with DMX, or as...
274.  [Arduino project: USB foot-operated mouse switch](#) This foot pedal plugs into the Arduino case which plugs into your PC via microUSB cable. Arduino microcontrollers can easily be used to power fun projects like robots and even...
275.  [How to make a Arduino LED Scroll Bar](#) Today I want to make a LED Scroll Bar as the above picture showed. Ten LED strips can flash in different effects by using a control board. Required Components LED...
276.  [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...
277.  [Arduino Laser Tag – Duino Tag](#) Duino tagger- General introduction Duino tag is a laser tag system based around the arduino. Finally a laser tag system that can be tweaked modded and hacked until you have...
278.  [DIY wattmeter with an Arduino](#) DIY wattmeter with an Arduino It is difficult or sometimes even impossible to measure power and energy with ordinary multimeters. To carry out such a measurement reliable and accurate, a...

279.  [Arduino car LCD display](#) Here is a project I made a couple of years ago for my father's car. The original dashboard's info-panel which displayed current time, date, working only partly...
280.  [Arduino Project # 1 – Make an Ultrasonic Distance Calculator](#) Arduino Project – The distance calculator I have been playing with Arduino (micro-controller) for about 2 years now and I am becoming more and more passionate about circuits. For those...
281.  [Make an Ultrasonic Distance Calculator](#) Arduino Project – The distance calculator I have been playing with Arduino (micro-controller) for about 2 years now and I am becoming more and more passionate about circuits. For those...
282.  [Arduino project: Stereo Peak Program Meter using arduino](#) Previously, we introduced the Arduino's analog-to-digital converter (ADC) in detail, looking at successive-approximation A-D conversion and how it's the best compromise between speed and cost. This time, we start putting...
283.  [Rocket Brand Studios Medium Tank using arduino](#) This is the assembly instructions for the Medium Tank from Rocket Brand Studios. This is a great little robot kit, and can be purchased as a complete kit or as...
284.  [Cheap Arduino Controlled Yogurt Maker](#) These days I was reading an interesting post on how to make yogurt "by the gallon" (<http://www.instructables.com/id/Yogurt-By-The-Gallon/>). One thing needed was to maintain a rather constant temperature of 43°C (110°F),...
285.  [Arduino BlinkyBall Project](#) I frequent a blog called hackaday.com which featured a project by "Nikolai", it was a 10cm LED ball that used shift registers. It seems like a really fun project to...
286.  [Colorful Countdown Clock for tight timeline management using Arduino](#) This is a funny looking clock that has that displays time on relatively large 32x16 Bi-Color LED Matrix. It includes also a countdown counter that I find very useful in...
287.  [Arduino Nano based Microbot](#) This instructable was created to be entered in the Robot Challenge. If I win, the parts will of course, go into robots like this one. Notes on how to include some...
288.  [Arduino Masterclass Part 1: Make your own hardware](#) The world is going nuts over the Raspberry Pi single-board computer (SBC) for being a whole system under \$50. In reality though the Pi isn't actually the cheapest computing device...
289.  [Arduino Wall Lamp](#) So, I have always wanted a nice lamp by the side of my bed, Something simple with out any buttons. Of course this would mean it had to be wireless. I also wanted to use...
290.  [Intervalometer for Sony NEX 5n](#) This intervalometer used infrared LED To built intervalometer you need: Arduino Nano (or Arduino-compatibility). I used Nano V3 Serial LCD Joystick Module IR Led and resistor ~200 Ohm Switch Push...
291. [Haptic Proximity Module \(HPM\) for Low Vision users](#) The Haptic Proximity Module (HPM) seeks to enable people with low vision, or other vision impairments, to engage with their direct surroundings through vibration feedback from a range detector, and...



292. [LED Dawn / Sunrise Alarm Clock, Nightlight & Security Light – Arduino Compatible](#) As the nights gradually lengthened in autumn 2011, I discovered the joys of Arduino and thought that it would be a great way to implement something that I have wanted...



293. [Playing Wave file using arduino](#) This is a simple circuit to play wav files using arduino Nano V3.0 ,it consist from 4 buttons ,each one play specific wav file loaded to SD card. Step 1:...



294. [PCB on a Box using Arduino Board](#) Sorry, but I hate cleaning windows, is one of my unfinished business as usual, but I had to do (at least) every time I wanted to etch a circuit board...



295. [Barista championship brewing stopwatch • Introduction using arduino](#) Upon the needs of the (2014) World Barista Championship Rules and Regulations, an adequate and precise time measuring is needed during the competition. These measurements are usually done by regular...



296. [Sensor Arduino Lab 2013](#) This lab most recently revamped by Edgar Berdahl and Wendy Ju. Chris Carlson, possibly Bill Verplank, and others have likely contributed. For this lab you need your Satellite CCRMA kit,...



297. [DIY handmade Hexapod with arduino \(Hexdrake\)](#) Hello, I'm David and in this instructable I'll show how I made this hexapod whose name is Hexdrake. Since I was 16 I became interested in electronic and later in...



298. [Build Your Own Sourcemeter](#) This is an explanation and set of building plans for a USB-powered sourcemeter with a personal computer interface. The sourcemeter uses an open-source Arduino microprocessor and the user interface uses the open-source Processing...



299. [Proximity sensing mouse wheel scroller using Arduino](#) List of tools: 1. Exacto 2. Arduino Nano / USB chord (Mini-B) 3. Dremel / Drill 4. Paper & Pencil 5. Sharp IR Sensor (2Y0A21 F) 6. Hot glue gun...



300. [Build your own 4x4x4 RGB LED Cube using arduino](#) LED Cubes are awesome. The first one I created was a 8x8x8 blue led cube. It still works like a charm. But being able to display every colour in the...














301. [Arduino based Bi-color LED Matrix Audio Spectrum Visualizer](#) After we came up with the Bi-color LED Matrix Driver Module kit, we have been looking around for interesting projects to work with it. You may be interested in some...



302. [ARDUINO WIRELESS HOME SECURITY SYSTEM](#) In this project I will discuss how you can make a cheap wireless home security system. Though during starting of this project the main objective was only for security alarm but...



303.  [NFC Ring Lock Box using Arduino](#) Hi everybody! Welcome to my first instructable! I apologize in advance for my poor level in English. In this step-by-step guide you how to build...
304.  [SOLAR POWERED ARDUINO WEATHER STATION](#) In country like India most of the people are dependent on agriculture. For effective planning in agriculture weather forecast is of utmost importance. So farmers are always interested in the Weather Forecasts. As...
305.  [LEGO T-Intersection LED Traffic Light using Arduino](#) Video not playing? See it on YouTube: <http://www.youtube.com/watch?v=q0tiiWwC6Zo> Background Every Christmas we set up a large LEGO train layout in a section of the living room. This year, I ended...
306.  [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 April's fools prank about metric-time. (<http://www.youtube.com/watch?v=K35xG1buyFA>) First I wanted...
307.  [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...
308.  [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...
309.  [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...
310.  [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...
311.  [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...
312.  [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...
313.  [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...




























[Turnkey PCB Assembly](#)




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