Use Arduino for Projects

Advanced View Arduino Projects List
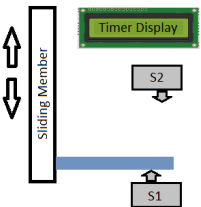
List of Projects using arduino with advance view:

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

2. [Uno The Arduino Robot](#) Age: 13 Meet Uno the Arduino powered robot. Some functions include a blinking nose, moving antennas, rotating head, IR distance sensor, twin motor gear box and rotation counters. Uno is made with relatively easy to obtain parts. This project provides a good introduction to Arduino. robot.skp475 KB Step 1: Materials Material and tools • Foam board...... Listed under: [Projects](#), [Robotics – Automation Projects](#)
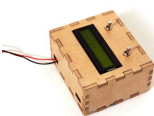
3. [Arduino Based Auto Timer](#) The Need: Last week around at work I had another usual un-usual problem to face with. Having to make lots of mechanisms n components to work with-in seconds or fracs at times I kind-of knew this was always coming.   And invariably so my poor...... Listed under: [Clock – Timer Projects](#), [Projects](#)
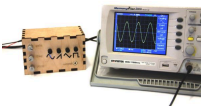
4. [Building a semi Smart, DIY boat with Arduino and some other sensors](#) I based this off of this really nice instructables.com post for building a water bottle boat, with some additions for obstacle avoidance and light-guided control. I used Arduino as a microcontroller, an ultrasonic sensor in the front, a few simple switches on the side of the boat,...... Listed under: [Game – Entertainment Projects](#), [Projects](#), [Sensor – Transducer – Detector Projects](#)
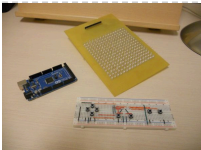
5. [Remote controlled webcam using Arduino](#) Web-enable your interactive sensors over desktop, smartphone and tablet devices. This tutorial describes in detail how to use the free SensorMonkey service to remotely control a pan and tilt webcam attached to an Arduino using nothing more than a simple webpage. The webpage can be...... Listed under: [Internet – Ethernet – LAN Projects](#), [Projects](#), [Video – Camera – Imaging Projects](#)
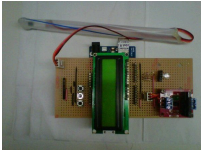
6. [Bike Speedometer using an Arduino](#) Monitor your road speed using the Arduino. This project uses a magnetic switch (also called a reed switch) to measure the speed of one of the bike's wheels. The Arduino calculates the mph, and send this information out to the LCD screen on the handlebars...... Listed under: [Metering – Instrument Projects](#), [Projects](#)
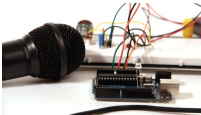
7. [Waveform Generator using an Arduino](#) Waveform generators (also called function generators) are useful for testing and debugging circuits. I often use them to test the frequency response of electronics components like op amp and sensors. This waveform generator is powered by an Arduino. It outputs four waveshapes: sine, triangle, pulse,...... Listed under: [Metering – Instrument Projects](#), [Projects](#)

8. [LED Matrix with Game Controller using an Arduino](#) This project was built for my introductory electronics class at the University of Waterloo in Canada. This was my first introduction to electronics and therefore, my first project. Follow these steps to build a 16 x 16 LED array with a wall (different colored LED...... Listed under: [LED Projects](#), [Projects](#)

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

10. [Audio Input using an Arduino Board](#) Send sound into your Arduino. This Instructable will show you how to prepare audio so that it can be sampled and processed by an Arduino to make sound responsive projects and audio effects. (This article is a companion to another Instructable I've written about building...... Listed under: [Projects](#), [Sound – Audio Projects](#)
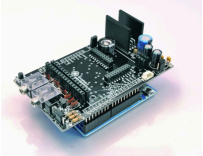
11. [Arduino Board Step Sequencer](#) I was wondering about on making a sequencer, a big 16 step sequencer was what I wanted to make. To it's full extension with lots of features including single leds for each step, midi input and output, etc. Then I realised that I should start from a...... Listed under: [How To – DIY – Projects](#), [Projects](#)

12. [Localizer with SIM908 module using Arduino](#) The device is based on a GSM/GPRS module with included GPS. Its main function is to detect and communicate its own geographical position using, on the choice, the cellular phone reference system or the GPS. Its small dimensions are due to the use, for the…… Listed under: [GPS Based Projects](#), [Phone Projects](#), [Projects](#)
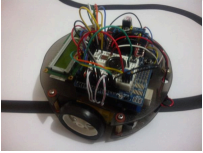
13. [GSM GPS shield for Arduino Board](#) Shield for Arduino designed and based on the module GSM/GPRS SIM900 or the GSM/GPRS & GPS module SIM908, to make calls, voice and data connections via GPRS. HARDWARE INNOVATIONS This new version (old Arduino GSM shield) has several new hardware features, that allow maximum customization…… Listed under: [GPS Based Projects](#), [Phone Projects](#), [Projects](#)

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

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

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

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