**Future Arduino Projects**

**And Raspberry PI, too**

Finish Building 3D printer (Not really an Arduino project)

<http://3dprintboard.com/forumdisplay.php?26-QU-BD-One-Up-amp-Two-Up-Forum/page3>

<http://www.fabric8r.com/forums/showthread.php?1247-Assembly-videos-and-other-resources>

<http://www.fabric8r.com/forums/showthread.php?1557-Instructions-Update-January-Backers-Help-Requested>

<http://www.fabric8r.com/forums/showthread.php?1547-My-build-log-notes-and-first-steps>

(Need to hookup Powersupply - otherwise its together)

## Pin Control Over the Internet - Arduino + Ethernet (Nov 13, 2014 Done)

## [Pin Control Over the Internet – Arduino + Ethernet](http://bildr.org/2011/06/arduino-ethernet-pin-control/)

A minimal Arduino Library for processing serial commands

<http://awtfy.com/2011/05/23/a-minimal-arduino-library-for-processing-serial-commands/>

Contiki For Arduino

Contiki The Open Source OS for the Internet of Things

<https://github.com/contiki/contiki-arduino>

<http://www.contiki-os.org/>

uSpeech Library - Speech recognition library for the Arduino

<https://arjo129.wordpress.com/experiments/%C2%B5speech/>

Real Time Clock - Done

Exosite Arduino Library

<http://playground.arduino.cc/Code/Exosite>

<http://exosite.com/>

Official(?) Arduino Libraries (?)

<http://playground.arduino.cc/Main/LibraryList>

Wireless Upload program to Arduino without USB cable

<http://www.instructables.com/id/Wireless-upload-program-to-Arduino-without-USB-cab/>

ThingSpeak Arduino Demo

<http://www.thingspeak.com>

Arduino Code Blocks

<http://arduinodev.com/codeblocks/#download>

Wireless Arduino Programming with the Electric IMP (WIFI)

<https://learn.sparkfun.com/tutorials/wireless-arduino-programming-with-electric-imp>

Stepper Motor Demo

<http://arduino.cc/en/Reference/StepperBipolarCircuit>

Carriots Dev IoT Arduino

<https://www.carriots.com/documentation/arduino>

Ninjafying An Arduino - Ninjablocks

<http://ninjablocks.com/blogs/how-to/7167388>

<https://github.com/ninjablocks/arduino-ninja-blocks>

Arduino IR Control & Sending IR commands to Roomba

<https://github.com/shirriff/Arduino-IRremote>

<https://gist.github.com/probonopd/5181021>

<http://www.instructables.com/id/Super-Simple-Arduino-Powered-Roomba-Scheduler/step5/Final-setup-and-Running/>

Pushing Box - Arduino API

<http://www.pushingbox.com/api.php>

CODEBender - Program an Arduino from the webbrowser

<https://codebender.cc/?referrer=lfmiller27> Not too sure what the “points” are for yet, but what the heck, I get “points” if I refer people.

Smart Coaster -

<http://www.thingiverse.com/thing:165218/#comments>

<http://www.instructables.com/id/Arduino-controlled-smart-coaster/>

WII Nunchuck Adapter

<http://todbot.com/blog/2008/02/18/wiichuck-wii-nunchuck-adapter-available/>

DIY Manual SMD Vacuum Pick and Place Tool

<https://www.youtube.com/watch?v=qJWUUK1s_G0>

Home Built SMD Reflow Oven

<https://www.youtube.com/watch?v=Dube38fpLtc>

$1 Photo-Theremin and more fun with reversed LEDs

<http://mvartan.com/2013/03/11/1-photo-theramin-and-more-fun-with-reversed-leds/>

Lots of different Ideas:

<http://codeduino.com/projects/> and

<http://hacknmod.com/hack/top-40-arduino-projects-of-the-web/>

How to Make LED Cubes

<http://hacknmod.com/hack/tutorial-how-to-make-led-cubes/>

How to Smell Pollutants

<http://www.instructables.com/id/How-To-Smell-Pollutants/?ALLSTEPS>

Breathalyzer Microphone

<http://www.instructables.com/id/Breathalyzer-Microphone/?ALLSTEPS>

Dirt Simple POV LED display

<http://hacknmod.com/hack/dirt-simple-pov-led-display/>

Make a Mini Segway Using the Arduino

<http://hacknmod.com/hack/make-a-mini-segway-using-the-arduino/>

Arduino XMAS hitounter

<http://tinkerlog.com/2007/12/04/arduino-xmas-hitcounter/>

Website Visitor Blinker

<http://hacknmod.com/hack/website-visitor-blinker/>

Tweet a watt

<http://makezine.com/2009/01/18/tweetawatt-our-entry-for-the-core77/>

Using Both Microcontrollers on your Arduino Uno-Compatible board:

(I’m guessing this only works on real UNOs, since some of the Chinese boards are using something different for the 2nd chip)

<http://www.freetronics.com.au/blogs/news/16053025-using-both-microcontrollers-on-your-arduino-uno-compatible-board#.VIpzdV25Tod>

## Using a laser pointer and a matrix LED as a two-dimensional input device

<http://www.cs.cmu.edu/~ehayashi/projects/lasercommand/>

Simple WiFi Thermometer (thermostat)

<http://slavino.blogspot.co.uk/2015/01/simple-wifi-themrometer.html>

vk16u6 ublox gps info

<http://forum.arduino.cc/index.php?topic=264313.0>

how to simulate arduino with proteus isis

<http://arduiny.com/how-to-simulate-arduino-with-proteus-isis/>

Raspberry PI Game Gear

<https://learn.adafruit.com/raspberry-gear/introduction>

Weather Reporter - Temboo, Ethernet and Arduino

<http://arduinobasics.blogspot.com.au/2015/02/weather-reporter-temboo-ethernet-and.html>

# Social Bug: bluetooth dancing robot

<http://www.instructables.com/id/Social-Bug-bluetooth-dancing-robot/>

Not really an Arduino project, but a Interesting one none the less, can be good for those hots days at Kings Island

Personal Solar Powered Air Conditioner

<https://blog.adafruit.com/2015/05/04/personal-solar-powered-air-conditioner/>

How to build a Raspberry PI retro game console

<http://lifehacker.com/how-to-turn-your-raspberry-pi-into-a-retro-game-console-498561192>

Combo Lock breaker - Masterlocks, Arduino, and a stepper motor are all you really need for this.

<http://samy.pl/combobreaker/>

Core2Duino (updated) - Add a 2nd processor to a UNO, 2nd processor runs it’s own code, so effectly you have a UNO on top of a UNO both with their own I/O pins. Interesting idea, but not sure how good this would be.

<http://www.instructables.com/id/Core2duino/>

Along the same line as above:

Expand I/O ports with another Arduino using I2C

<https://www.youtube.com/watch?v=lZBZ_Nco1pc>

<http://rodelectronics.blogspot.com/2010/03/expand-io-ports-with-another-arduino.html>

Turn your Arduino Into an ISP

<http://www.instructables.com/id/Turn-Your-Arduino-Into-an-ISP/>

(This is also how to flash a new boot loader on your boards, if you think something happen to the boot loader)

Raspberry PI as a WSPR Transmitter (really simple, the rPI can be used as a transmitter)

<https://gerolfziegenhain.wordpress.com/2013/04/13/raspi-as-wspr-transmitter/>

Another Raspberry PI Transmitter (FM, AM, SSB, and FSQ)

<http://www.rtl-sdr.com/transmitting-fm-am-ssb-sstv-and-fsq-with-just-a-raspberry-pi/>

Similar to the above, turn a Raspberry Pi into a FM radio transmitter.

<http://makezine.com/projects/make-38-cameras-and-av/raspberry-pirate-radio/>

Arduino Synthesizer

<https://github.com/sensorium/Mozzi>

<https://github.com/sensorium/Mozzi/releases>

<http://sensorium.github.io/Mozzi/gallery/>

<http://elek101.blogspot.be/2015/01/mozmo-brilliant-arduino-mozzi-synth-in.html>

Commodore Vic 20/C64 Arduino Projects:

<http://larswad.github.io/uno2iec/> IEC is what the 1541 disk drive used, so this should be an interesting project

More info: <https://github.com/Larswad/uno2iec/wiki/About-Uno2IEC,-the-Arduino-1541-emulator-Wiki-and-HowTo>

Use a Commodore Serial Printer:

<https://tkkrlab.nl/wiki/Commodore_Serial_Arduino>

C64 Emulator for the Arudino DUE:

<http://hackaday.com/2014/07/06/c64-emulator-for-the-arduino-due/>

ESP8266 (NodeMCU) project:

<http://www.seeedstudio.com/recipe/219-wifi-scanner-know-the-wifi-signal-around-you.html>

Mini Weather Station with Attiny 85

<http://www.instructables.com/id/Mini-weather-station-with-Attiny85/>

Arduino UNO I2C master

<http://www.instructables.com/id/Arduino-Uno-I2C-Master/>

Arduino Controlled Hexbug Spider

<http://www.instructables.com/id/Arduino-Controlled-Hexbug-Spider/>

mbas - mail box alert system

an incoming mail alert system solar powered and transmitting mail arrival notifications wirelessly to an “inside home” micro base station

<https://hackaday.io/project/5848-mbas-mail-box-alert-system>

Android Arduino Control (IoT Control Devices with ThingSpeak)

<http://androidcontrol.blogspot.com/2015/06/android-iot-control-thingspeak.html>

Arduino based Desktop Line Follower - jollibot

<http://www.instructables.com/id/Arduino-based-Desktop-Line-Follower-jolliBot/>

Arduino Powered Autonomous Vehicle

<http://www.instructables.com/id/Arduino-Powered-Autonomous-Vehicle/>

(needed for the compass, and not documented well)

<http://www.magnetic-declination.com/#>

Raspberry PI Project - Mini Handheld Notebook

<https://learn.adafruit.com/mini-raspberry-pi-handheld-notebook-palmtop>

170+ Arduino Projects for Final Year Students

<http://www.electronicshub.org/arduino-project-ideas/>

Sending Sound over the internet with Spark Core Photon

<https://www.hackster.io/middleca/sending-sound-over-the-internet?ref=newsletter&utm_source=Hackster.io+newsletter&utm_campaign=7ed27a4931-2015_4_17_Top_projects4_16_2015&utm_medium=email&utm_term=0_6ff81e3e5b-7ed27a4931-135069861>

Plotter from old CDROMs

<http://www.homofaciens.de/technics-machines-plotter-cdrom_en_navion.htm>

RPi Text to Speech (Speech Synthesis)

<http://elinux.org/RPi_Text_to_Speech_(Speech_Synthesis)>

Telegram bot library projects:

<https://create.arduino.cc/projecthub/Arduino_Genuino/telegram-bot-library-ced4d4?ref=platform&ref_id=424_recent__beginner_&offset=3>

<https://create.arduino.cc/projecthub/Arduino_Genuino/smart-thermostat-e1f400>

# Adafruit Trinket Color/Mode:

<https://www.hackster.io/Richa1/adafruit-trinket-color-mode-43bcd8?utm_source=hackster&utm_medium=email&utm_campaign=new_projects>

Bunnybot:

<https://hackaday.io/project/12373-bunnybot>

Thinger.io

<https://thinger.io>

Simple Arduino UNO <> ESP8266 Integration

<https://www.hackster.io/circuitoio/simple-arduino-uno-esp-8266-integration-dba10b>

Wireless Remote LCD with ESP8266:

<https://blog.oshpark.com/2016/08/20/wireless-remote-lcd-with-esp8266/>

Arduino SMS:

<http://nicolasdalloap.jimdo.com/arduino-sms-1-1/>

Raspberry Pi Bakery - the easiest way to setup a Raspberry Pi

<http://www.pibakery.org>

Arduino Remotino - Remote Monitor

<http://www.rudius.net/oz2m/remotino.htm>

ESP8266 WIFI Telnet Server

<http://www.rudiswiki.de/wiki9/WiFiTelnetServer>

A Trio of Robotic Navigational Sensors

<http://www.robotoid.com/appnotes/sensors-trio-nav-sensors.html>

IoT Project: WIFI Enabled Portable Display

<http://ashishware.com/WifiDisplay.shtml>

(I did a project based on this, but never documented it, mine works slightly different)

Using Encoders to Drive Straight

[Making a robot go straight using encoder motors and micro-controller (Arduino)](http://electronics.stackexchange.com/questions/185856/making-a-robot-go-straight-using-encoder-motors-and-micro-controller-arduino) <http://www.robotc.net/wikiarchive/Tutorials/Arduino_Projects/Mobile_Robotics/VEX/Using_encoders_to_drive_straight>

Make a line follower robot in 10 minutes

<https://diyhacking.com/make-line-follower-robot/>

Arduino – sorting array integers with a bubble sort algorithm <http://www.hackshed.co.uk/arduino-sorting-array-integers-with-a-bubble-sort-algorithm/>