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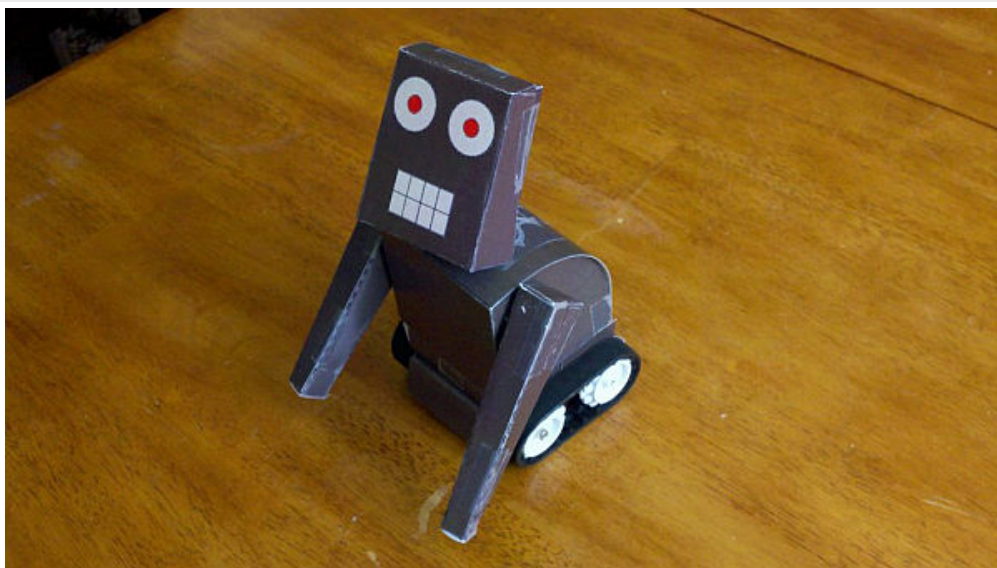
Beginners guide to building Arduino robots with Bluetooth and Android

Posted by: admin   Posted date: March 21, 2013   In: Arduino Android | comment : 2

Arduino + Android?
🌐 remotexy.com/

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.
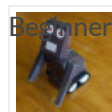
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Build list…

The following is the list of components we are going to use:

1. Pololu Zumo chassis   http://www.zagrosrobotics.com/shop/item.aspx?itemid=884
2. DRV8833 dual motor driver   http://www.zagrosrobotics.com/shop/item.aspx?itemid=879
3. Arduino Uno or compatible   http://www.zagrosrobotics.com/shop/item.aspx?itemid=868
4. Bluetooth modem   http://www.zagrosrobotics.com/shop/item.aspx?itemid=883
5. Android phone or tablet

Along with that list of parts for the robot you are going to need these basic things to build and program your robot

1, Computer with the Arduino IDE   http://arduino.cc/en/Main/Software
2. Soldering iron
3. Some solder and wires

Assembly…

After you have assembled your robot chassis and solderd your motor driver and modem, the next step is to wire up your Arduino Uno to the motor drivers and chassis. Here is the wiring diagram

Arduino PIN   GND — DRV8833   GND
Arduino PIN   10 – DRV8833   ain2
Arduino PIN   11 – DRV8833   ain1
Arduino PIN   5 – DRV8833   bin1
Arduino PIN   6 – DRV8833   bin2
Arduino PIN   GND – DRV8833 GND
Arduino PIN   VIN – DRV8833   VIN

Arduino PIN   (TX)1 – Silvermate RX
Arduino PIN   (RX)0 — Silvermate TX
Arduino PIN   5V – Silvernate VCC
Arduino PIN   GND – Silvernate GND
Silvermate   CTS — Silvermate RTS

Arduino Sketch.

Download the attached sketch and flash it to your Arduino. If you are new to Arduino
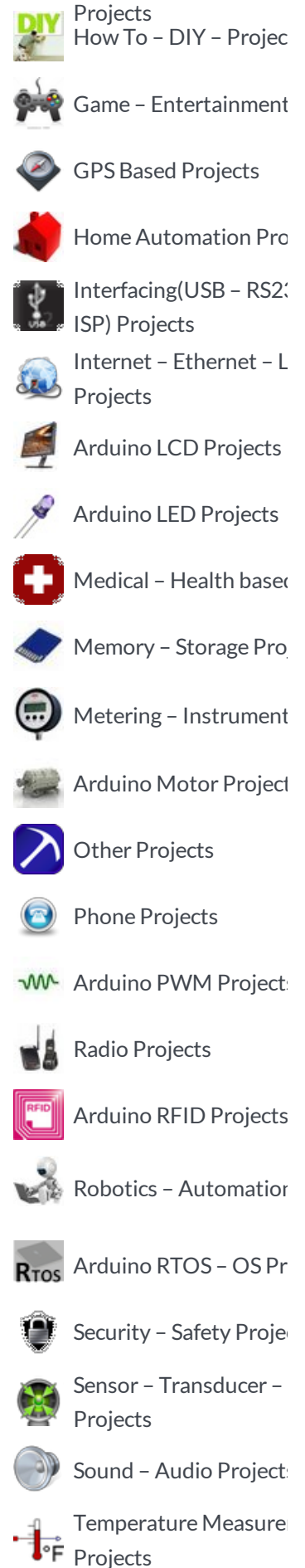
you can always reference their home page and or the Playground for ideas and insight
into everything Arduino.

Robots sketch download link https://www.box.com/s/25c8f3c14c8b0217759e

Home page http://www.arduino.cc/

Playground http://arduino.cc/playground/

For more detail: Beginners guide to building Arduino robots with Bluetooth and Android

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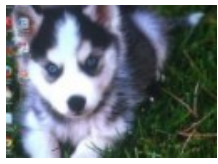- pololu zumo projects
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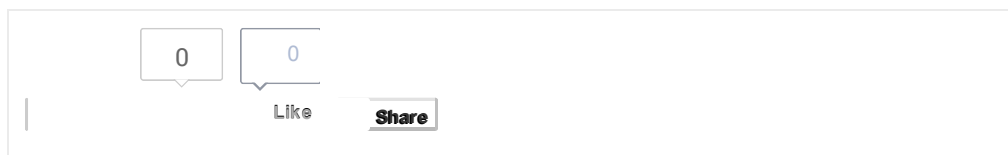
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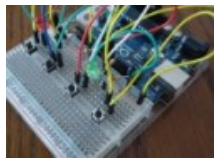
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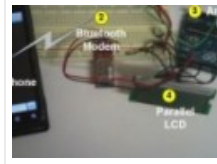⭐⭐⭐⭐⭐ (No Ratings Yet)

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