

# Control DC Motors with your Smartphone by RuiSantos



Author: RuiSantos [Random Nerd Tutorials](#)

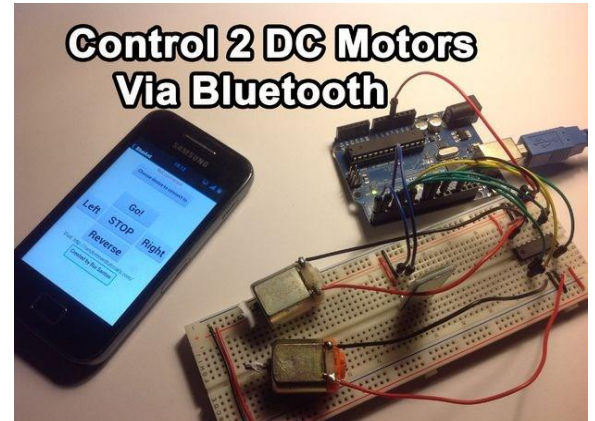
Hi guys, My name is Rui Santos. Who am I? I'm a 20 years old student currently studying at FEUP Electrical Engineering. I'm Portuguese. I've created this account to share my electronics projects. If you guys enjoy my projects you can visit my website for more information. Or contact me by sending an email to [rffsantos16@gmail.com](mailto:rffsantos16@gmail.com)

**Intro:** Control DC Motors with your Smartphone (Perfect for a Robot)

In this tutorial I'll show you how you can control 2 DC motors via bluetooth with my brand new Android app.

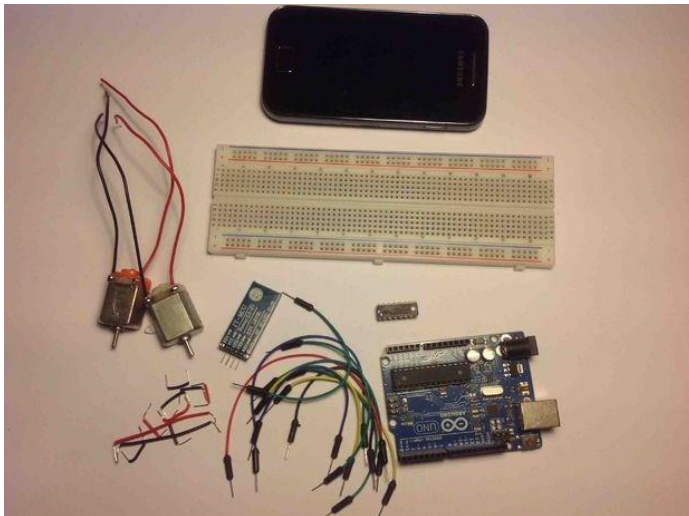
It's called "BlueArd" and It's the 1.0 version. I want to upgrade my app later and add more features.

This app was created with MIT App Inventor. It's a great place to start with android development.



## Step 1: Parts Required

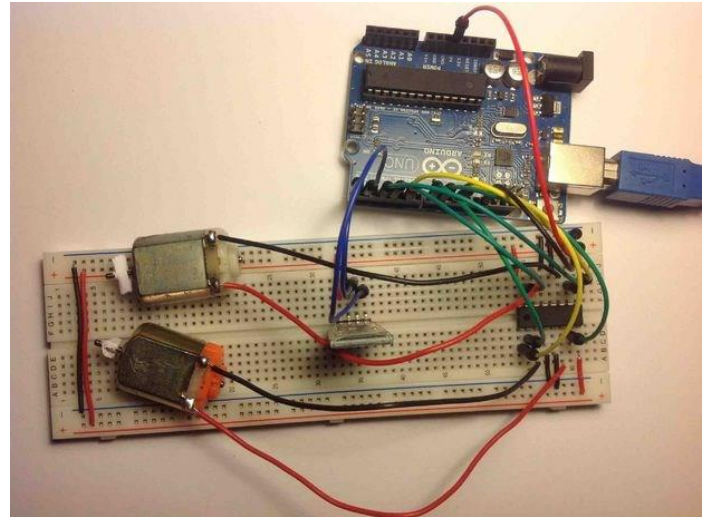
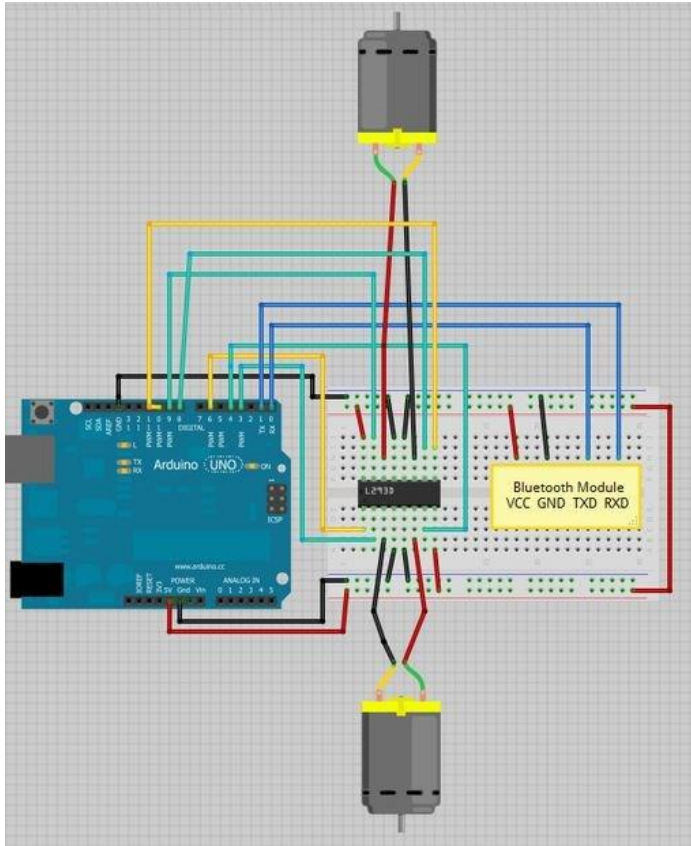
- 1x Arduino Uno
- 1x Bluetooth Module (for example: HC-05)
- 1x Smartphone (any Android will work, I've only tested with Samsung Galaxy Ace)
- BlueArd Application (you can download it below)
- 1x L293D IC
- 2x DC motor
- 1x Breadboard
- Jumper Cables



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## Step 2: Schematics

It's really easy to complete this step. You just follow the schematics provided in this picture.



### Step 3: Arduino code + Android App

- Arduino Sketch
- BlueArd.apk
- BlueArd Source files (for editing my app with appinventor)

What exactly you need to do?

Upload the Arduino sketch into your arduino and install the BlueArd.apk file on your smartphone.

### Step 4: Final Product!

Video tutorial at: <http://randomnerdtutorials.com/arduino-control-2-dc-motors-via-bluetooth/>

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