Published on Dec 21, 2016

In this tutorial, we will make voice controlled robot with an Android application. We will control the robot via Smartphone.  
  
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Suggested videos about this project:  
  
- How to install the library: <https://youtu.be/Es8D1q_b-c4>  
- Voice controlled LED: <https://youtu.be/Hn9CG_vEQAE>  
- Error: No Such File or Directory: <https://youtu.be/Es8D1q_b-c4>  
- Project on using motor shield: <https://youtu.be/C3GhJmmRY4Y>  
  
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Hardware Required:  
  
-Arduino Board - <https://goo.gl/UyGYeF>  
-L293D Motor Shield - <https://goo.gl/9Ph44b>  
-Bluetooth Module (HC06) - <https://goo.gl/thjwVL>  
-DC Motor and Wheel x2 - <https://goo.gl/rpxoMu>  
-Bovine wheel - <https://goo.gl/sNu1u7>  
-Wires - <https://goo.gl/TdGrkk> - <https://goo.gl/VRzUN4>   
-Breadboard - <https://goo.gl/jZeZC2>  
-Chassis - <https://goo.gl/v1moF2>  
-Battery and Battery buckle - <https://goo.gl/iAEgPl>  
  
Recommended site to buy the required hardware:  
<https://goo.gl/3j489l>  
  
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Creating chassis:  
  
-DC Motors attach to the chassis  
-The Arduino board attach to the chassis  
-Mini breadboard attach to the chassis  
-Bovine wheel attach to the chassis  
-Wheels attach to DC Motors  
-Bluetooth module attach to mini breadboard  
  
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Connections:  
  
-Bluetooth RX connect to the Arduino TX input  
-Bluetooth TX connect to the Arduino RX input  
-The Motor Shield attach to the Arduino board  
-The Arduino GND connect to the Bluetooth module GND  
-The Arduino +5V connect to the Bluetooth module VCC  
-Left DC Motor connect to the Motor Shield M1 inputs  
-Right DC Motor connect to the Motor Shield M2 inputs  
-Battery buckle connect to the Motor Shield +V and GND  
  
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About the Code and App:  
  
-Get the Code - <https://goo.gl/ZfrFPJ>  
  
-The Arduino board connect to the PC  
-Open the Arduino New Sketch  
-Copy and Paste the Code  
-First you should add the library  
-Get the AFMotor.h library:   
[https://github.com/adafruit/Adafruit-...](https://github.com/adafruit/Adafruit-Motor-Shield-library)  
-Servo.h library is standard library  
-Don't Forget ! You should select your Port  
-When you uploading, disconnect the Bluetooth connection  
-Download and Install the Application:  
<https://play.google.com/store/apps>  
-If you get a connection error, reset the Arduino and restart the application

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