

For more Project details visit:

<http://www.projectsof8051.com/bluetooth-controlled-robot-using-android-mobile/>

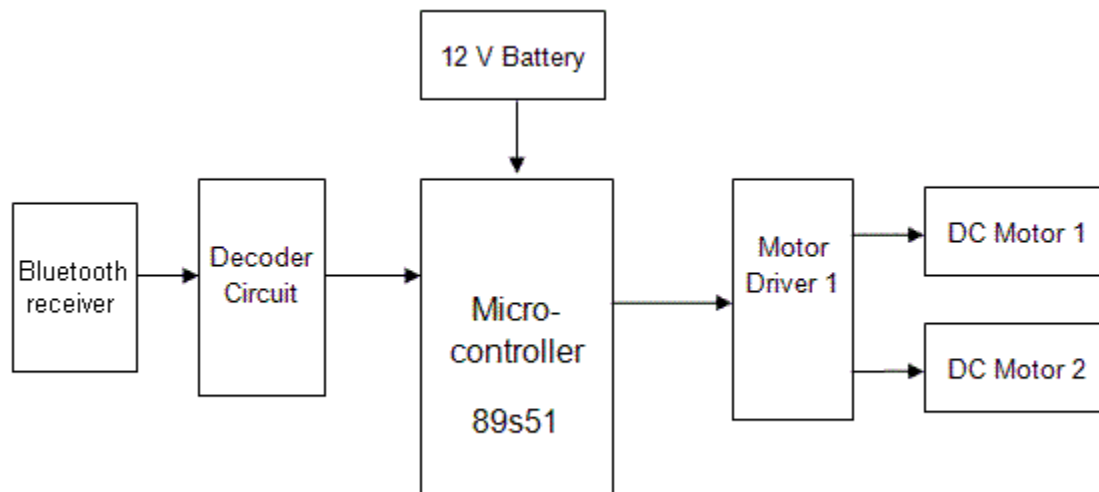
Code	Project Title
1405	Bluetooth operated robot using Android mobile

Synopsis for Bluetooth operated robot using Android mobile

Introduction

Many of the wireless-controlled robots use RF modules. But this project make use of Android mobile phone for robotic control. The control commands available are more than RF modules. For this the android mobile user has to install an application on her/his mobile. Then user needs to turn on the Bluetooth in the mobile. The wireless communication techniques used to control the robot is Bluetooth technology. User can use various commands like move forward, reverse, move left, move right using these commands which are sent from the Android mobile. Robot has a Bluetooth receiver unit which recives the commands and give it to the microcontroller circuit to control the motors. The microcontroller then transmits the signal to the motor driver IC's to operate the motors.

Block Diagram for Robot



Transmitter / Controlling Unit



Block Diagram Description

This project mainly consists of following blocks:

- 1) Android mobile
- 2) Bluetooth receiver unit
- 3) Microcontroller
- 4) LCD Display
- 5) DC motors

Applications

- The robot is small in size so can be used for spying.
- This robot can be used in the borders for disposing hidden land mines.
- The robot can be used for reconnaissance or surveillance.

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