

ANDROID PHONE OPERATED WIRELESS ROBOT

ABSTRACT

This project makes use of an Android mobile phone for robotic control with the help of Bluetooth technology. We have already seen Mobile Controlled Robot using DTMF technology which uses call based method to control robot. Also many wireless-controlled robots use RF modules. 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, stop move left, and move right. These commands are sent from the Android mobile to the Bluetooth receiver. Robot has a Bluetooth receiver unit which receives the commands and gives 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.

This project mainly consists of following blocks:

- 1) Android mobile
- 2) Bluetooth receiver module
- 3) Microcontroller
- 4) Motor Driver
- 5) DC motors

BLOCK DIAGRAM:

