Microtronics technologies

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For more Project details visit:

http://www.projectsof8051.com/mobile-controlled-robot/

Code	Project Title
1130	Mobile Controlled Robot

Synopsis for

Cell phone Operated

Landrover Robot

Introduction

- Conventionally, wireless-controlled robots use RF modules, which have the drawbacks of limited working range, limited frequency range and limited control.
- Use of mobile phone for robotic control can overcome these limitations.
- It provides the advantages of robust control, working range as large as the coverage area of the service provider, no interference with other controllers and up to twelve controls.
- The controls are also more than RF modules

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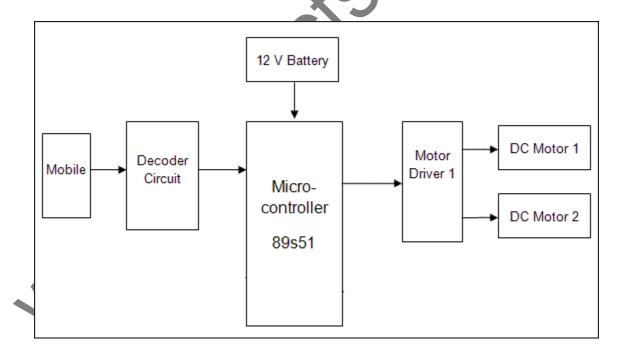
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Project Overview

- Robot is controlled by a mobile phone that makes a call to the mobile phone attached to the robot.
- In the course of a call, if any button is pressed, a tone corresponding to the button pressed is heard at the other end of the call.
- This tone is called 'dual tone multiple-frequency' (DTMF) tone. The robot perceives this DTMF tone with the help of the phone stacked on the robot.
- The received tone is processed by the microcontroller with the help of a decoder.
- The microcontroller then transmits the signal to the motor driver IC's to operate the motors...

Block Diagram



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Block Diagram Description

- On the robot we have mounted a 12V battery as the power supply for the circuit and the motors.
- User calls the mobile (which is mounted on the robot) this call is received by auto-answer mode.
- As the call continues when the user presses a button on his handset the tone that is generated is decoded by the decoder and the command is passed to the microcontroller which is preprogrammed.
- The Microcontroller then passes the command to the motor driver IC's for motion.

Applications

- This robot can be used in the borders for disposing hidden land mines.
- The robot can be used for reconnaissance or surveillance.
- The robot can be used anywhere there is the service provider tower of the connection provided that is mounted on the robot.
- The robot is small in size so can be used for spying.

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