Vidarbha Youth welfare society

Prof Ram meghe college of engineering and management

Department of Electrical and Electronics Engineering

Mobile controlled Robot with obstacle avoider

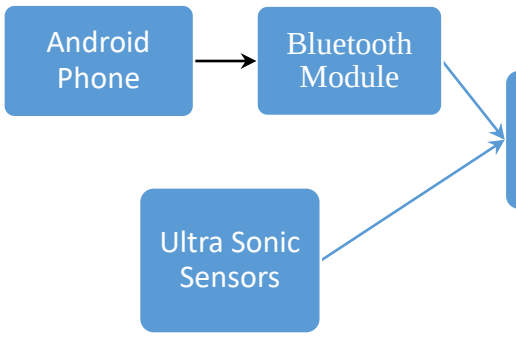
Introduction:

Bluetooth controlled car is controlled by using Android mobile phone. Here only needs to touch button in android phone to control the car in forward, backward, left and right directions.

Working Principle:

This car has two dc motors at its rear side. Front side wheel is used for giving direction to car means turning left or right side (like real car steering feature). And rear side motor is used for driving the car in forward and backward direction. A Bluetooth module is used to receive command from android phone and Arduino NANO is used for controlling the whole system. Bluetooth controlled car moves according to button touched in the android Bluetooth mobile app.

Block Schematics:



Project Team: Sujay Alaspure, Lokesh Devghare

Project Guide: Prof. M. W. Nasim

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Joystick & Button Controlled Robot using nRF Module

Introduction:

In this project I've used a nRF24L01 Module Tx and Rx pair to allow the Arduinos to communicate wirelessly with each other. These modules are probably the easiest way to set up wireless simplex communication between two Arduinos

Working Principle:

Remote controller board having Arduino and nRF Module. When we press button or change the joystick, it sends the data to Arduino and through nRF it will send data to another nRF Module placed on robot. Arduino connected to that module decodes the data and send commands according to data and robot will move.

Block Schematics:

Project Team: Sujay Alaspure, Simran Meshram

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