Descriptive Project Name

Arduino based mini bot using Android App

Project Overview

Nowadays, people have smart phones with them all the time. So it makes sense to use these to control a mini bot. Presented here is an Arduino based mini bot using android application, which you can use to control a mini bot with simple clicks through smart phones. Commands send via smart phones through Wi-Fi (for local web server) or internet (for long distance) and are received by Arduino.

Problem and Solution Statement

The major problem was which device should be used for this system raspberry pi or Arduino. Seeing the cost, size and compatibility we used Arduino. Basically Arduino is a series of low-cost and low-power system-on-chip (SoC) microcontrollers with integrated Wi-Fi and dual-mode Bluetooth.

Benchmark (How this solution is better?)

Mini bot based on Bluetooth using Arduino is better than others because it does not contain any wires it is totally wireless so it is very helpful. It works through our android app so we do not need any remote to control our bot.

Implementation strategy

Our project is Mini Bot using Arduino. Here, we will be handling the Input-Output using Android Application. First of all we have to make an android application for the mini bot. Then we have to make an Arduino code to run the DC motor. We have to use Bluetooth to send the data from the application. Then a DC motor driver to run the motor.

1. Arduino UNO
2. Bluetooth module HC05
3. DC motor -2
4. Android App
5. Motor Driver

Contributors

Name	Roll no	Contact No	Email
Rutvik Patel	16IT090	9687100579	16it090@charusat.edu.in