



## Project Proposal

# VOICE CONTROLLED ROBOT THROUGH ANDROID

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## ***Definition of Project***

Voice controlled robot is a mobile robot which is control by some specified voice commands. The mobile application is capable of identifying five commands which are "Stop", "Forward", "Back", "Left", "Right". In this [embedded systems project](#), we make a 4-WD robotic car which we can control using voice through a mobile application. Application listens and sends the instruction to the Arduino using Bluetooth and then Arduino performs the specified operation. [Voice recognition application](#) is not 100% accurate. The application is sensitive to the surrounding noises. It sometimes misinterprets the voice commands given to the robot.

## ***Scope of Project and Deliverables***

At the end we will get a vehical which can controlled by remote/mobile . We can mount any system on this vehical. The system does work on light reflection principal. So if we try to run the system at night or say at no light condition then the system can also be performed.

## ***Design Specifications***

The making of line follower robot is divided under three heads:

- I. Chassis of robot
- II. Electronics/Hardware Designing
- III. Programming/Software Designing

## ***Cost***

The expected cost for this project is about 2500 TK

## ***Schedule***

The project will be completed within 2 month from the date of start.

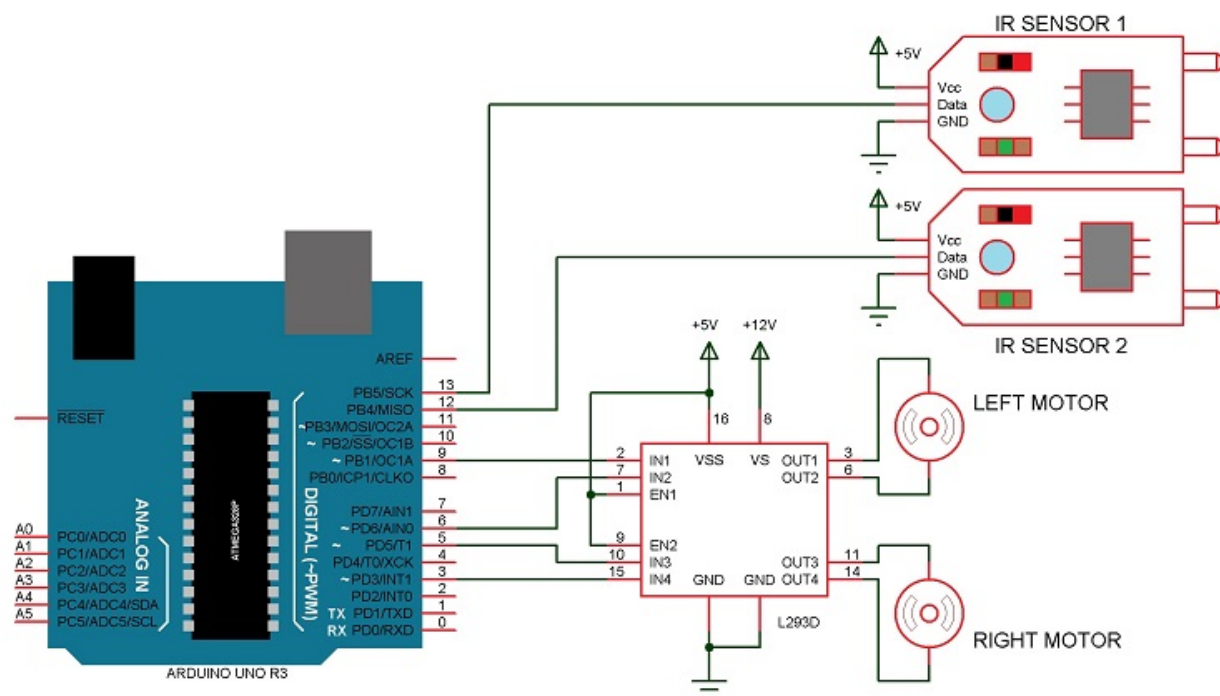
## ***Deliverables***

- ❖ Design
- ❖ Report
- ❖ Hardware Board
- ❖ Software code file
- ❖ Project report

## Components and Supplies

- ❖ - Arduino Board
- ❖ - Motor Shield
- ❖ - Bluetooth Module (HC06 or 05)
- ❖ - DC Motor and Wheel x2
- ❖ - Bovine wheel
- ❖ - Wires and Breadboard
- ❖ - Chassis
- ❖ - Battery and Battery buckle

## Circuit Diagram



## Conclusion

A highly reliable and easy system to accomplish a purpose design specific task such as distribution of medicine and food to the bed ridden patients specially in infected & inaccessible areas of the hospitals and medical Centre have been reported. The on-board intelligence helps to

providing situational awareness a basic requirement of the system to be operated by voice / tele confined for ascertaining a majority of other tasks in open loop environment. The operation by voice command could best be used for handicapped.