



# ANDROID AND VOICE COMMAND BASED ROBOT CONTROL SYSTEM

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## ABSTRACT

Complete their work fast and more Nowadays almost of peoples want accurate whenever they are not present at that at that place but one person cannot present two place at one time for this approach "Android and Voice Command Based Robot Control System "is develop ,so in this system the robot is operate at user command that mean robot is control by user voice command . In this system voice recognition system is used .Voice recognition system mean it identify words in spoken language and convert it into in machine readable language. When we say voice control , the first term to be considered is speech recognition i.e. making a system to understand human voice. By using this system one person do multiple task for example one military officer can watch 2km area activity which is are right or wrong. When he detect some activity in he's area by using this system ,He can be inform the base control .This system also used in NASA and also in automation industries .

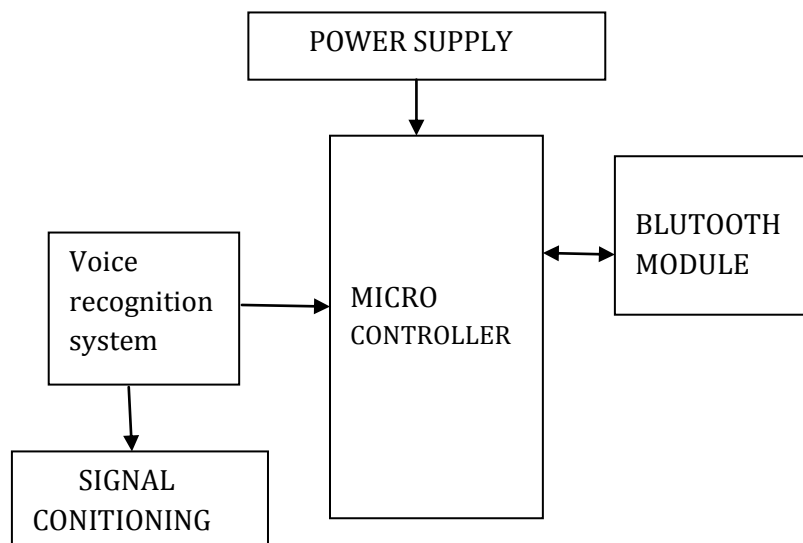
**Keyword:** Voice recognition system ,dc motor ,dc motor driver ,wireless camera, laser gun.

## I. INTRODUCTION

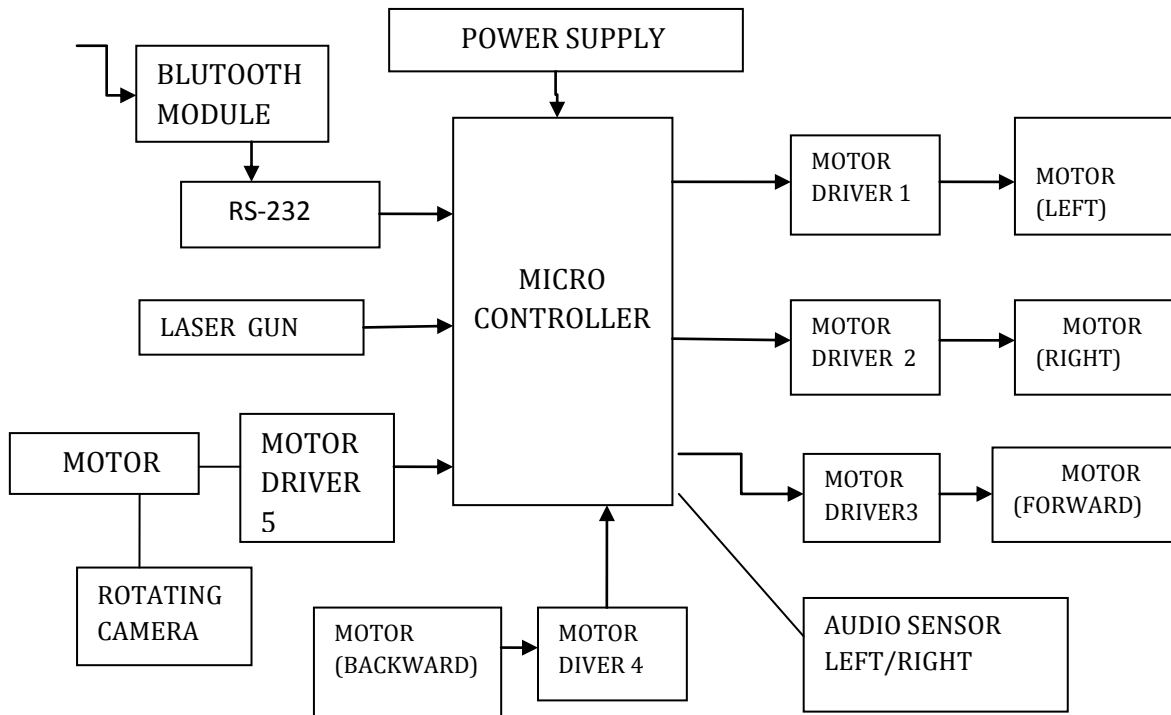
In this project or system robot is control by using human voice command. Voice control mean robot is control by the words which is are say by a person like right ,left ,back such that and other activity of robot also.

## II. BLOCK DIAGRAM

Control unit:



Robot Unit:



### III. BLOCK DIAGRAM DESCRIPTION:

Micro-controller :

It is heart of entire system and used for data analysis and storage .It will capture the all answer feed by user and will do the comparison with standard answer enter by system operator. A PIC is generation of PIC processor designs. This generation introduce the Thumb 16-bit instruction set providing improve code density compared to previous design

Bluetooth :

Bluetooth is based on 802.15 standard .Technological standard created for Control and Sensor Network .and it created by Bluetooth alliances .

Speech recognition system :

The speech recognition system is a completely assembled to use programmable speech recognition circuit.

Programmable ,in the sense that you train the worlds you want the circuit to recognize.

### IV. ALGORITHM OF VOICE SYSTEM

Control Unit:

1. User will say the stored command using Smartphone attached to the system
2. The system will compare the voice input with the store pattern
3. If the input is matched ,the corresponding BCD output will be given at 8 bit data port
4. The BCD output is directly given to the PIC controller.
5. The PIC will perform the action, written under this BC code



Robot Unit :

1. Turn on the voice recognition system
2. Press program key, so that to enter in PROGRAM MODE
3. Clearly say that the target world/command in Smartphone
4. The command will be stored at location 1
5. Similarly the all commands code stored in the IC

## V. CONCLUSION

This system is easy to use and user friendly .by using this system we user can control the robot movements like backward ,forward, left ,right through the voice . This system use Smartphone for making communication between user and robot ,so it gives more accurate and reliable output.

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