

## RF Controlled Robot Using Advanced Sensors

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**Abstract**— The wireless communication technology are rapidly spreading in too many new areas, including the automation and the importance of the use of wireless technologies in the data acquisition building control and automation of manufacturing processes will grow. Robots are also useful to do job in area and in situation that are hazardous for human. This paper gives an idea about designing wireless communication between a remote control and a robot. The main aim is to build a wireless robot using Arduino which can be detect obstacles, flames and chemical and the robot can be controlled by a remote control through RF module the information pass through the RF module to the operator and the LED light will glow.

**Key Words:** Arduino, robot, RF Module, wireless

### 1. INTRODUCTION

The fundamental concept of wireless communication on a small scale. The remote control application of RF has been extended to operate a bot. The main aim of the project is to implement a wireless robot which can be controlled through remote control using RF module and navigates around the areas and tries to detect obstacles, flames, of fire and chemical. This innovative concept consist of 434MHz Transmitter and receiver pair to allow the arduino on both the ends to communicate wirelessly with each other. [1] Here the Robot can detect the obstacles through the use of ultrasonic sensors. Apart from this the Robot can detect flames of fire through the use of flames sensor. Also it will be able to detect chemicals like  $H_2$ , LPG,  $CH_4$ ,  $CO$  or propane through the use of a sensors. The robot will be able to implement one of these three functions at a time.

### 2. METHODOLOGY

Here we show prototype model or 3 phase fault detection, so we make the fault line by using switches. We know that impedance of line is increases with increase in lengths. So we use resistance combination in senses, for each phase different set of resistance is used for each phase one relay is use to isolate the load at the time of fault which give exact length of fault occur on line. The mastermind of our project is Aurdino Uno, The DC supply is requiring for controlling board. Which is provides with the help of rectifier and

transformer combination. Output switches is given analog pin or Aurdino (Uno) and display is also connected to digital output pin of Aurdino. So when we move fault it indicate of display with exact distance, and at a same time Aurdino give output to relay and it, disconnect load from supply. This all thing happen as soon as fault is occur in line. Due to proper program insert in Aurdino on a based. It is possible become voltages of ADE pin is changes according to flowing from line and it depends upon distance of line.

### 3. OBJECTIVE

- To reduce the human efforts.
- No need of microcontroller.
- Implement without any programming language.

### 4. METHODOLOGY

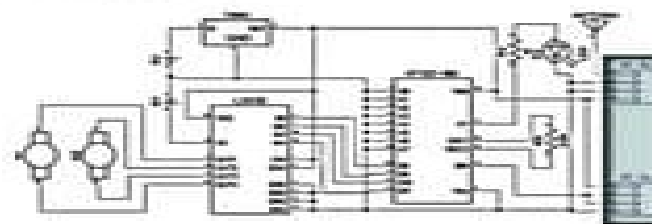


Figure 1 Circuit Diagram of Transmitter

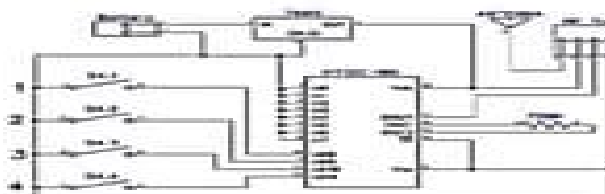


Figure 2 Circuit Diagram of Receiver

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