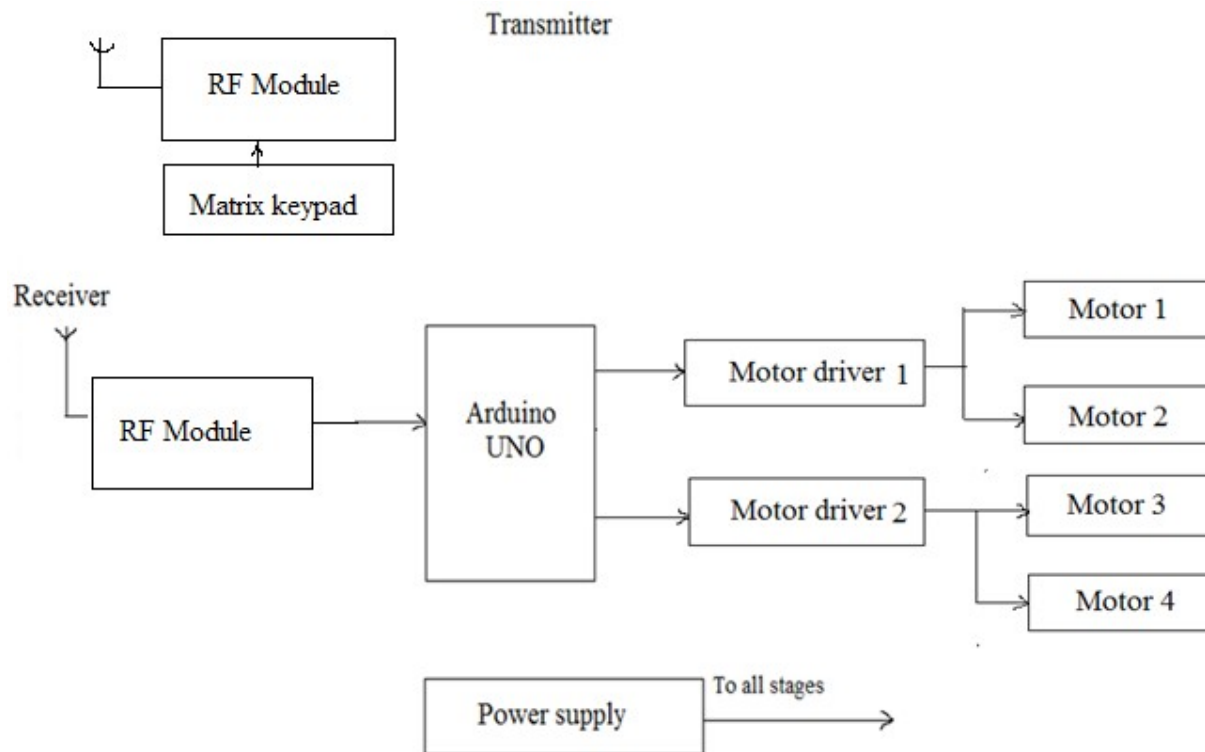


## **Abstract**

The ongoing trend of automation is found in the application of robots in daily life. RF controlled robot uses frequency of 434 MHz to communicate with the robot. RF communication is the basic way to wirelessly control robots. It provides good range of communication. The control of the robot can be designed with the help of a microcontroller.

## Block Diagram



This project is a Omni-directional RF controlled robot. User can use various commands like move forward, reverse, stop move left, move right and diagonal movements. These commands are sent from the RF transmitter to the RF receiver. A matrix keypad is interfaced to the RF transmitter. The robot has a RF receiver unit which receives the commands and give it to the microcontroller circuit to control the motors. The microcontroller then transmits the signal to the motor driver IC's to operate the motors.