***“GESTURE CONTROL ROBOT CAR”***

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***OVERVIEW:***

Gesture Controlled Robot is a robot which can be controlled by simple gestures. The user just need to wear a gesture device which includes a sensor. The sensor will record the movement of the robot in the respective direction. The robot and the Gesture device are connected wirelessly via radio waves.

***COMPONENTS AND SUPPLIES:***

1. Arduino Lily-pad 2.Accelerometer 3. RF 433 Module 4.HT12E and HT12D 5. Motor driver L293DNE

6. BO Motor and Wheels 7.Prototyping Board 8.Battery 9.7805 IC 10. JUMPER

***DESCRIPTION:***

The accelerometer reads the X Y coordinates when we make gestures by hand and send the X Y coordinates to the Arduino. The Arduino checks the values of coordinates and sends a 4 bit code to the Encoder IC. The Encoder passes the data to RF transmitter and the transmitted data is received by the RF receiver. The receiver sends the 4-bit code to the Decoder IC and the decoder passes it to Motor Driver IC. Later the motor driver makes the decision to turn the two motors in the required direction.

