

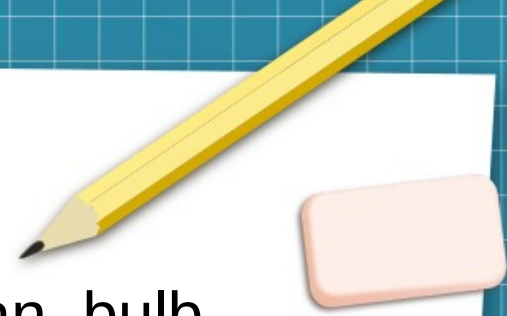
GESTURE CONTROLLED CONTACTLESS SWITCH

-HOME AUTOMATION

Presented by -

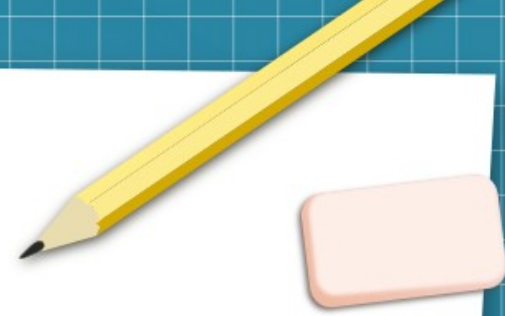
Muthuselvi M.N - 711621106022
Micheal Beavin J.R - 711621106021
Vijayaragavan S - 711621106038

DESCRIPTION



- In this project ,we controll home appliances like fan, bulb etc.using Gesture.
- APDS 9960 sensor is used to control Gestures.
- In this project three appliances BULB and FAN had been controlled.
- Right and Left Gestures are used to change the devices.
- Same way UP gesture is used to ON Device and DOWN gesture is used to OFF Device.

COMPONENTS REQUIRED



- Arduino Uno board
- APDS 9960 Sensor (offers ambient light and color measuring, proximity detection, and touchless gesture sensing)
- 16×2 LCD I2C
- Relay Driver board (ULN2003)
- Jumper wires
- 9V Battery
- Battery Connector
- Battery to Arduino Connector
- Fan, LED

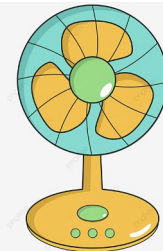
APDS 9960
SENSOR

DETECTS
GESTURE
UP/DOWN
LEFT/RIGHT

ARDUINO UNO

LCD DISPLAY

CHANNEL
RELAY



Future application and development

A yellow pencil with a black eraser and a pink eraser are positioned in the top right corner of the slide, appearing to be part of the presentation's design.

- Avoid the switch becoming the hotbed of virus transmission
- Can be applied to smart watch and smart devices for easy control
- Image processing and machine learning can be applied for more accurate control of gestures
- Control the devices with a wave and nod



THANK YOU

