Smart Glove

Poorneshwar Reddy Chaganti (IMT2020545)

Shaurya Agrawal (IMT2020539)

Yathin Kumar Attuluri (IMT2020550)

Dhanvi Medha Beechu (IMT2020529)

Ayyappa Koppuravuri (IMT2020555)

Sasank Karamsetty (IMT2020540)

Components

1. Arduino Uno
2. Arduino Nano
3. Bluetooth Module (HC-05)
4. Flex sensors
5. Bulb, LED
6. DC motor
7. Cotton Glove
8. MPU-6050
9. Connecting wires
10. Resistors
11. Transistor P2N2222A
12. Diode 1N4148

Specifications

1. The smart glove is a Bluetooth-based wireless glove that can control things using hand gestures.
2. This glove operates in three modes
3. The first mode is used to control the bulb that is to on and off using hand gestures
4. The second mode is used to control the fan that is to on, off, and control the speed of the fan
5. The third mode is used to play music, using specific gestures we can play and pause a song and additionally we can increase and decrease its volume
6. Additional functionality of this glove is that the user can give specific gestures as input and map that to specific functionality in respective modes.

Future scope

- We can extend this project for various other applications such as controlling a remote-controlled car based on the gestures
- Using IoT devices that can be connected to Arduino we can control those devices.