Pratyush Kaware

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Education

- **Primary and Secondary Education :**

  Rustomjee International School , Borivali. (SSC Board)

- **Higher Secondary :**

  PACE Junior College , Borivali. (HSC Board)

- **Graduation :**

  Currently studying at Sardar Patel Institute of Technology (B.Tech)

Technical Skills

- **Programming :**

  C , C++ , Java , Python , Assembly Language (Intel 8085 microprocessor) .

- **OS :**

  Used to UNIX environment.

- **Electronics :**

  Basic Electronics , worked with Raspberry Pi and Arduino .

Projects

• Raspberry Pi 3 B+ :

Remotely controlling Pi via SSH

Controlling Pi which is on the same network via SSH with my phone or any device connected on the same network with a terminal . (For example : Turning LEDs on or off which were connected to the GPIO pins.)

Basic GPIO functions

Used General Purpose Input Output pins to provide a voltage and also used pulse width modulation to provide analog values .

Speech Recognition

Used Google Speech API with Python 3 to convert voice recorded by a microphone to text and executed commands related to GPIO pins base on the converted input (like turning the LEDs on or off).

• Arduino :

Used a 16x2 LCD display

Displaying text on the LCD .

Line Following Bot

Used an Arduino Nano with 3 IR sensors which gave input according to which the bot moved.

• Core Electronics :

Variable DC Voltage Source

Built a variable DC voltage source using A transformer , Diodes , Voltage Regulator (LM317) , Capacitor and a Potentiometer .

Digital Counter

Built a 2-bit Digital Counter using clock (IC 555) , JK flipflops (IC 7473) , Binary to 7-segment Decoder (IC 4511) and a 7-segment display .