

# VINAYAK NAGAR

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Pratap colony, Bhinmal, Rajasthan  
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[GitHub](#)

[Portfolio](#)

Career Objective:

Self-motivated and hardworking graduate seeking an opportunity to work in a challenging environment and to learn skills.

## Education:

**Vellore Institute of Technology (2021-23)**

Master of Computer Applications

**GLS University (Gujarat)**

Bachelor Of Science (I.T) (9.05 CGPA)

**12<sup>th</sup>: Adarsh Vidhya Mandir (70%)**

**10<sup>th</sup>: Adarsh Vidhya Mandir (63.33%)**

## Certifications and Participation:

- [Elements of Ai](#)
- [Python](#)
- [Problem Solving \(Intermediate\)](#)
- [online internship on "ROBOTICS"](#)
- CYBER SHADE – 2020
  - i) Relay Programming 3<sup>rd</sup> runner up
  - ii) Arduino technology (Fire Fighting robot)

## Skills:

**C | C++ | Java | Python |HTML|  
CSS | JavaScript | PHP | MySql |  
Web Development | Software  
Development | Embedded Software**

## Areas of Interest:

AI | Robotics | Web Development | Arduino  
| App Development

## Experience:

Sept. 2022 - JULY 2023

**General Aeronautics Pvt. Ltd., Embedded Intern**

JULY 2023 - Present

**General Aeronautics Pvt. Ltd., Embedded Software Engineer**

Live projects mentioning below :

- 1) I use Orxa batteries in agricultural drones, which have a maximum voltage of 57.8 V. I created a code for it so that when the drone is ready to fly, the battery can't be turned off manually.
- 2) Developed a code to find out how much of a drone's payload, battery, and total spraying area it uses while in flight. and showing the mission summary using all the data.
- 3) Created a Python code to track the status of firmware updates. While a drone's firmware is being updated, the pilot can monitor the process.
- 4) Developed a Python code that uses the CAN protocol to extract all of the data from the UCPack battery. The battery's data contains voltage, current, SOC, cell temp ,etc.

## Projects:

### Fire Fighting Robot:

Made firefighting robot using Arduino Uno. It had fire sensor on the front which sensed the fire and if it sensed the fire the water pump will start the water flow. Tools used: C, Arduino IDE, DC Submersible pump, L293D Motor, Fire Sensor

### Game Controls Through Gesture:

We can control the game using hand gesture. Tools used: C, Arduino Leonardo, FLEX Sensor, ADEXL 335

### Age and Gender Detection in Robot:

First we detect Age and Gender based on model After that system will speak based on your gender classification