



**Mrinank Gaur**

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🐙 GitHub Profile

🌐 LinkedIn Profile

## WORK EXPERIENCE

### • Technocrats Robotics

Robot Programmer

Chennai

1 yr 5 mos

- Movement of Octa-directional Bot using Omni Wheels
- Computer Vision Based Localization Using Aruco Markers
- Robocon India 2024
- Technoxian WRC 2023

## EDUCATION

### – Vellore Institute of Technology

2022-2026

Bachelor of Technology in Electronics and Communication Engineering

**CGPA: 8.78/10**

### – The Khaitan School

2022-2022

Class XIIth

**CGPA: 8.92/10**

### – The Khaitan School

2020-2020

Class Xth

**CGPA: 9.62/10**

## PROJECTS

### – Industry projects (R&D)

- \* **Battle Ship Game** | Made an interactive Battle Ship game in C++ using OOPs concepts.
- \* **Home Automation System** | IoT based home automation system using esp32
- \* **Analog Visitor Counter** | Made a counter which counts visitors in an area using OP-Amp comparator and IC 4022
- \* **8-Axis Omni Wheel Bot** | Made a robot using Omni Wheels that can move in 8 axis with high precision
- \* **Soldier Tracking System using 8051** | A high precision soldier tracking device that can send latitude and longitude of the soldier using GSM neo6M module interfaced to AT89S52 micro-controller. Written using x51 Assembly
- \* **Noise Reduction in DSP** | Made a MATLAB simulation of adaptive noise reduction using a feedback system
- \* **RISC V SOC design** | Designing a implementation of a RISC V Processor using FPGA

## TECHNICAL SKILLS

**Languages:** Python, R, Java, C, C++, HTML/CSS, Matlab, SQL, x86 Assembly, 8051 Assembly, Shell, Bash, Verilog HDL

**Developer Tools:** VS Code, IntelliJ, AWS, Keil MicroVision, Cadence Virtuoso, ModelSim

**Technologies:** GitHub, Linux, ROS2, Excel, Esp32, Arduino, AT89S52, Raspberry Pi

**Frameworks:** Matplotlib, Numpy, Pandas, Open CV

**Softskills:** Leadership, Management, Teamwork, Communication, Creative thinking, Analytical & Problem solving

## EXTRACURRICULAR

### – Clubs & Sports

- \* Trekking Club
- \* Co-coordinated Trek for Trekking Club
- \* Participated in intra-college football tournament
- \* Completed 5K marathon for Gender Equality