Mrinank Gaur

Vellore Institute Of Technology, India

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⚙ GitHub Profile
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WORK EXPERIENCE

- **Technocrats Robotics** — *Chennai*
  Robot Programmer — 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
  * **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