

# Mrinank Gaur

Vellore Institute Of Technology, India

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🔗 GitHub Profile  
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## WORK EXPERIENCE

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- **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

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- **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

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- **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 8-Bit Assembly Language (8051)
  - \* **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

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**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

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