

Mrinank Gaur

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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

- 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 and implementation of a RISC V Processor using Zynq UltraScale+ MPSoC FPGA board with 29 opcodes in the instruction set.
- AHB to APB Bridge Design** | Designing and implementation of bridge between AHB and APB using VerilogHDL implementing AMBA architecture
- Multiply Accumulator(MAC)** | Designing and implementation of 4 bit Multiply Accumulator which performs the action of $Y = AB + CD$. Here Y is an 8 bit register and rest all are 4 bit registers acting as inputs. This was implemented using hybrid pipelining (register + wave pipelining) for increased clock frequency.

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