

Rijuta Saraswat

09/05/2003 | +91 9458431854 | rijutas02@gmail.com | Female |

Electrical and Electronics Engineering student at VIT Vellore, serving as HV Engineer at Team Ojas Racing (EV). Specializes in motor operation and control, known for organization, dependability, and a positive attitude.

Experience

September 2023 **Intern (EV), JBM Auto Ltd (OEM)**

- October 2023
- Gained insights into the architecture of an electrical bus, enhancing understanding of complex electrical systems.
 - Analyzed data to troubleshoot and resolve ongoing issues with the motor resolver.

April 2022 – Till date **HV Engineer, Team OJAS Racing | VIT Vellore**

- Managed high voltage components, including motors and controllers, ensuring safe and efficient operation.
- Modeled vehicle electrical systems using Simulink, supporting design and testing processes.
- Collaborated with team members on vehicle design and competition preparation, driving project success.

Education

2021-2025 **Vellore Institute of Technology**
Bachelor of Technology in Electrical and Electronics Engineering. | CGPA: 8.46

2019-2021 **Delhi Public School Refinery Nagar CBSE**
Intermediate, PCM. IT President (Student council). | 91%

2019 **Sacred Heart Convent Hr. Sec School ICSE**
Senior Secondary School Certificate (SSCE). | 82%

Projects

Oscillatory Activation Functions on Face Mask Detection DNNs-Simulation. | Python |

- Simulated DNNs with oscillatory activation functions for enhanced mask detection accuracy.
- Applied non-linear classification techniques, relevant to innovative test methodologies.

IoT-Based Hydroponic Monitoring System

- Designed an IoT-based system for automated hydroponic monitoring.
- Utilized sensors and data analytics for system optimization, reflecting automation skills.

Skills

Software Expertise:

MATLAB-Simulink, LabView, DIALux, EasyEDA, Altium, Orcad PSpice, Multisim,

Programming Skills:

Java, Python, SQL, Embedded-C

Modelling & Analysis: Electrical systems modelling and analysis on Simulink

Communication, Troubleshooting, Documentation, Inventory Control, Microsoft Excel

Languages: English, Spanish, Hindi

Certifications

- Electrical Design for Modern Building Infrastructure(L&T)
- VLSI Design Methodologies (Maven Silicon)
- Altium PCB Designing
- Basics of Operational Procurement in Supply Chain Management (TCSiON)

Extra-Curricular Activities

- National Competition - Pi-EV: Developed FMEA report, showcasing analytical skills.
- Core Member, TEC: Organized "Sensored 6.0," demonstrating leadership and project management.