

RAHUL RAJ R

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OBJECTIVE

Final Year Electrical Engineering undergraduate aspiring to explore advanced research in electromagnetism, quantum field techniques, and emerging computation models. Strong foundation in experimentation, embedded systems, and signal modeling, supported by hands-on experience in power systems, and IOT based smart devices. Eager to contribute in projects and research in multiple fields including electromagnetism , quantum engineering and technologies.

EDUCATION

Bachelor of Technology in Electrical Engineering 8 CGPA	2022 - 2026
Vellore Institute of Technology, Chennai Campus, Tamil Nadu	
Maharishi International Residential School, CBSE, Class XII 80%	2020 - 2022
Dr.G.S.K memorial school, CBSE, Class X 93%	2013 - 2020

SKILLS

Programming	Python, C, Java, Rstudio, MATLAB
Circuit Design	LTspice, PSpice, EasyEDA, Keil µVision, Qflow, PSCAD, Simulink
Language	English, Tamil, German(A1)

PROJECTS

- Comparative Study of Pumped Storage Hydropower and hydro electric System using MATLAB and Simulink
- Real-time AQ monitoring system with AI forecast
- QPSK Transceiver Simulation and Performance Analysis using Simulink
- Self-Balancing Robot using ESP32 **Club project**
- Designing Smart Hydration Tracker using Miniature Weighing Coaster
- Physical Design of SPI Master Core using Qflow
- Designing Access Management using IR,Camera,RFID sensors
- Design Fabrication and Testing of Axial Flux motor for robotic application

EXPERIENCES

Power Quality Auditing & Standards Analyst <i>ICD Power Solution PVT Limited</i>	Nov 2023 - Dec 2023 On-Site
As a Power Quality Auditor, I studied and presented on IEEE and GRI standards, ensuring compliance with industry regulations. I documented findings from the audits and provided recommendations for solutions based on the data collected from the site. Additionally,I also explored the fundamentals of digital marketing to enhance outreach and communication strategies.	
Team Lead – Industrial Energy Audits <i>India 4.0 Technologies</i>	Dec 2023 – Mar 2024 On-Site & Remote
An Industry 4.0 based startup, focusing on power quality, Where I Led teams and coordinated tasks while working with a power quality auditor at a startup. Personally retrieved data from Fluke 437 - 11 Power Quality meter devices, documented the findings, and provided tailored audit recommendations for factories. Contributed to a government-funded project that secured a tender from the Indian government for auditing major power stations	

and railways across India. Managed critical documentation for the tender process before transitioning out due to academic commitments.

CERTIFICATIONS

Nanotechnology Research Intern

Teachnook

Nov 2022 - Dec 2022

Remote

- Designed nanomaterials and explored their applications through research and team-based projects.
- Conducted experiments, performed data analysis, and received hands-on training bridging theory with practice.

Physical Design Intern

Maven Silicon

May 2025 - July 2025

Remote

- Completed RTL-to-GDSII flow training with emphasis on floorplanning, placement, routing, and CTS.
- Worked with open-source tools including Qflow, Yosys, and GrayWolf for synthesis, timing, and physical verification (DRC/LVS).