VAISHAKH V

EMBEDDED SYSTEM ENGINEER

Embedded Systems Engineer with a background in Electrical and Electronics Engineering. Skilled in creating and improving embedded solutions. Strong problem- solving abilities and knowledge of modern technologies. Currently pursuing MTech in Embedded Systems to deepen expertise and contribute to innovative and efficient projects.

CONTACT

Palakkad, Kerala
+91 9497334997
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github.com/vaishakh-v

SOFTWARE

Vivado
Linux
Keil ARM Cortex
Machine Learning
RTOS
KiCad
Etap
Auto Desk Fusion

SKILLS

Research & Problem-Solving
Project Coordination

PROGRAMMING LANGUAGES

Python
Embedded C
Assembly

LANGUAGES

English
Malayalam
Hindi
Tamil

EXPERIENCE

PCB DESIGNER - SIGN EMINENT ENTERPRISES PVT LTD
Freelanced as a PCB designer for Sign Eminent Enterprises Pvt Ltd, developing Battery Management System (BMS) PCBs for inverters and power management applications using KiCad. Responsibilities included schematic design, circuit optimization, layout implementation, and design validation to ensure efficiency, reliability, and compliance with industry standards.

TEAM LEAD FOR NANOSAT DEV PROJECT – GAGAN AEROSPACE
Leading a multidisciplinary team in the development of a nano satellite project, overseeing component selection, circuit design, and subsystem simulation. Managing project timelines, coordinating team efforts, and ensuring effective collaboration to achieve key milestones. Conducting rigorous testing and validation to optimize performance and reliability as the project progresses.

EDUCATION

MASTER OF TECHNOLOGY (M.TECH)
Embedded Systems (Ongoing)
Vellore Institute of Technology (VIT)
CGPA: 8.17

BACHELOR OF TECHNOLOGY
Major : Electrical and Electronics Engineering
NSS College of Engineering Palakkad Kerala
CGPA : 7.91 (First Class)

HIGHER SECONDARY SCHOOL
Major : Computer Science
MNKM HSS Chittilamcherry Kerala
CGPA: 8.77

ACTIVITIES

PRESIDENT – CELESTIA NSSCE: Led the space club, organizing workshops and collaborating with ISRO veterans to enhance industry engagement and technical learning.

SOLAR STORM PREDICTION USING CUBESAT DATA: Developed a machine learning model for detecting and predicting solar storms using CubeSat telemetry.

IOT & MICROCONTROLLER PROJECTS: Designed and implemented various IoT and embedded system-based DIY projects.