

# 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.

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### 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

### CONTACT

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### 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.