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| 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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| ContactPalakkad, Kerala+91 9497334997itsvaishakh@gmail.com[linkedin.com/in/vaishak-v](file:///C:\Users\alkav\Downloads\linkedin.com\in\vaishak-v\)[github.com/vaishakh-v](http://github.com/vaishakh-v)SOFTWARE Vivado  Linux  Keil ARM Cortex  Machine Learning  Real Time OS  KiCad  Etap  Auto Desk Fusion Skills Research & Problem-Solving  Project Coordination PROGRAMMINGLANGUAGES VHDL  Embedded C  Python  Assembly **LANGUAGES**EnglishMalayalamHindi Tamil |  | Experience | |
|  | PCB designer - Sign Eminent Enterprises Pvt Ltd | 2023 - 2024 |
|  | 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 | 2020 - 2023 |
|  | Led a multidisciplinary team in developing a nano-satellite, managing component selection, circuit design, and subsystem simulation. Oversaw project timelines, facilitated cross-functional collaboration, and ensured efficient team coordination to meet key milestones. Conducted rigorous testing and validation to enhance system performance and reliability. Contributed to the project during my college years as part of Gagan Aerospace, a startup incubated under NSSCE. | |
|  | Education | |
|  | Master of Technology (M.Tech) | 2024 - 2026 |
|  | Embedded Systems (Ongoing)  Vellore Institute of Technology (VIT)  CGPA: 8.17 | |
|  | BACHELOR OF TECHNOLOGY | 2019 - 2023 |
|  | Electrical and Electronics Engineering  NSS College of Engineering Palakkad Kerala  CGPA: 7.91 (First Class) HIGHER SECONDARY SCHOOL 2016 - 2018 Computer Science  MNKM HSS Chittilamcherry Kerala  Percentage aggregate: 87.75% | |
|  | Activities | |
|  | **Solar Storm Prediction Using CubeSat Data**: Developed an ML model to detect and predict solar storms using CubeSat telemetry.  **Machine Learning & AI Projects:** Built binary image classifier, hand recognition and tracking system for IoT home automation, line follower.  **Space Club Lead, Celestia NSSCE:** Organized workshops and collaborated with ISRO veterans to enhance industry engagement and technical learning.  **IoT & Microcontroller Projects:** Designed and implemented multiple IoT and embedded system-based DIY projects. | |