VINESH V

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Profile Summary

Tech-driven ECE undergrad (CS minor) focusing in digital VLSI design, Signal Processing, embedded systems, and automation. Contributed to Sourajala(IEEE-funded). Developed educational recommender system. Building IoT-based water monitoring and Cleaning system. Passionate about digital system design, FPGA prototyping, and leveraging technology to solve real-world challenges.

Academic Qualification

Course Name	Year of Completion	Institute/Board Name	CGPA/Percentage
Bachelor of Technology in Electronics & Communication	2026	NSS College of Engineering Palakkad, Kerala	8.68 out of 10 (Till 5th Semester)
12th	2022	Kerala State Board	99%
10th	2020	Kerala State Board	95%

Positions of Responsibility:

- **Secretary, IEEE SIGHT (Feb 2025-)**

Description : Lead and organize events to foster collaboration and innovation. Manage meetings, document minutes, and track action items. Facilitate communication between members and stakeholders. Support projects while ensuring compliance with IEEE guidelines.

- **CS Minor Representative (Oct 2023- 2024)**

Description : Acted as liaison between students and faculty, addressing concerns and enhancing communication. Organized initiatives to improve learning. Represented the CS minor community in decision-making

Projects

1. Title : **Sourajala (IEEE Funded – $5,292 | SB NSSCE), Dec 2024**
Objective: : Developed a sustainable water management system to provide drinkable water to a community of 18 families. Integrated solar panels for power generation and installed street lights for enhanced infrastructure.
Tools/Components : Solar Panels, DC Switch, Digital Meter, Submersible Motor, Water Tank, HDPE Pipes, Tank Connectors, Saddles, Pipe Joints, Concrete Rings, Cement, Metal Rods, Sand, Welding Equipment, Wiring, Clamps, Soldering Kit, LED Street Lights, Shovels, Drills, Measuring Tape, Safety Gear.

2. Title **: Education Recommendation System (Activity Project), Dec 2024**
Objective : Developed a system that predicts the top 5 career paths based on subject scores using Random Forest. Built with Flask for backend processing and a user-friendly web interface.
Tools/Components : Python, Flask, Random Forest, Pandas, Scikit-Learn, Colab Notebook, HTML, CSS, VS Code, Pickle.

3. Title :**IoT Enabled Water Monitoring and Cleaning System(April 2025)**
Objective : Designed an IoT-based system to automate water level monitoring and cleaning, ensuring optimal levels and water quality using sensors, microcontrollers, and Blynk for remote monitoring.
Tools/Components : ESP32, Ultrasonic Sensor (HC-SR04), TDS Sensor, LCD Display, Turbidity Sensor, Relay Module, Motor, Pump, Jumper Wires,
Power Supply, 741 IC, Arduino IDE, Blynk App, Wi-Fi Connectivity, Power Supply.

Webinar & Events

- Mystic Boxes, Event by NSSCE, Mar 2023

Workshops & Competitions

- Metaverse, Workshop by **National Institute of Technology Calicut**, Oct 2022
- Microcontroller Based Embedded System Design (Including IoT), Workshop by IEEE IES SB NSSCE**,** Oct 2024
- Autonomous Cars, Workshop by **National Institute of Technology Calicut**, Feb 2025

Certifications

- Essential Mathematics for Machine Learning, **NPTEL**, Nov **2**024
- Internet of Things 101, **Infosys**, Feb 2025

Achievements

- 3rd place - FOSSEra 4.0 24 Hr-Hackathon - FOSSNSS in collaboration with Hackfiesta v4.0; developed a Flutter app for students.(Mar 2025)
  • Developed a mobile app**(Vidyut)** to notify students about the various opportunities like internships, scholarships, etc.
- **1st Place – Hack A Prob 24-Hour Hackathon** – ISTE NSSCE (Apr 2025)
  • Developed an end-to-end mobile application for **disaster management(Sahaya)**, enabling real-time reporting, rescue coordination, and resource tracking.

Area of Interest

- VLSI & Signal Processing
- Embedded Systems & Artificial Intelligence/Machine Learning

Community Work

- Led an LED manufacturing workshop at Govt. Children's Home, Muttikulangara, guiding 14 participants in assembling functional LED bulbs. (Mar 2025 | Robocamp Jr. - IEEE)

Hobbies & Extra-Curricular Activities

- Gaming
- Music