Vaishnav Sabari Girish

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Electronics and Communication Engineering final year student with solid foundation in Embedded Systems, Linux, and programming. Experienced through projects and internships, with leadership as Vice-Treasurer of Evalanche Club.

Education

Jain (Deemed-to-be) University

India

BACHELORS OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

- · School of Engineering and Technology
- CGPA: 8.2

Skills

 Programming C, C++, Python, Rust, Bash, Lua, MATLAB

Languages

 Embedded Arduino, ESP32, STM32, PlatformIO, ESP-IDF, Embedded Linux

Systems

 Tools and Software KiCad, Proteus, LT Spice, Linux Distributions, OpenSCAD

 Soft Skills Team Work, Leadership, Problem Solving, Analytical Thinking, Adaptability

· Languages English, Japanese, Tamil, Kannada, Hindi

Professional Experience_____

Depixel Tech

EMBEDDED SYSTEMS DEVELOPMENT INTERN

Bengaluru, Karnataka

August 2025 - October 2025

- · Developed embedded firmware using Zephyr RTOS and Nordic microcontrollers, integrating sensor interfaces and wireless communication (Bluetooth LE)
- · Designed and optimized PCB layouts for wearable IoT devices, ensuring reliability and efficient signal flow
- · Learned how to use the Nordic Development Kit for prototyping and debugging
- Implemented low-power strategies for extended product lifetime
- · Integrated sensor data collection and wireless communication protocols (Bluetooth LE) for real-time health monitoring

Apsis Solutions

EMBEDDED SYSTEMS INTERN

Bengaluru, Karnataka

January 2025 - March 2025

- Engineered embedded software solutions for microcontroller-based systems, collaborating with multidisciplinary teams to synchronize hardware and software functions.
- Developed real-time applications and control scripts in C, Python, and Bash.
- Designed and programmed ESP32 IoT devices for automation tasks.

• Programmed STM32 and ESP32 boards for IoT control applications

LiveOut Solutions

PROMPT DESIGNER INTERN

- Bengaluru, Karnataka June 2024 - July 2024
- · Managed cross-functional project timelines and deliverables, reinforcing adaptability and teamwork for specification alignment and project collaboration
- Conceptualized and designed AI-powered prototypes
- · Produced high-quality visual content for marketing campaigns and product presentations using advanced AI-powered design platforms including Leonardo and Ideogram.
- · Developed professional product mockups and prototypes for client presentations and marketing materials to enhance visual communication using Mockey.
- · Built and customized online stores using Zoho Commerce with integrated payment systems, inventory management, and user-friendly interfaces for small businesses.

PANTECH Solutions

INTERN

- June 2022 July 2022
- · Programmed various microcontroller platforms including Arduino and ARM-based systems for automation and control applications in industrial settings
- Practiced PCB layout and component placement
- · Assisted in firmware testing to ensure seamless hardware-software integration, supporting product reliability and performance.

Bengaluru, Karnataka

Vaishnav Sabari Girish CURRICULUM VITAE

Certificates

- 2023 C Programming for Embedded Applications, Linkedin Learning
- 2023 Microcontroller Embedded C Programming, Udemy
- 2024 Object Tracking and Motion Detection with Computer Vision, MathWorks
- 2024 Learning LabView, Linkedin Learning
- 2024 Digital Signal Processing 1: Basic Concepts and Algorithms, EPFL
- 2024 Digital Signal Processing 2: Filtering, EPFL
- 2024 VLSI SoC Design using Verilog HDL, Maven Silicon
- 2025 Problem Solving and Logical Reasoning, Coursera

Projects

ARDUINO INTERACTIVE CLI

 A tool designed to simplify the transition from Arduino IDE to Arduino CLI. Features a user-friendly Text User Interface (TUI) to support beginners.

COMCHAN SERIAL MONITOR

• A blazingly fast and minimal Serial Monitor application written in Rust. Fatures include : Serial Monitor I/O, Serial Plotter, Writing Serial data into files

REMOTE FIELD MONITORING SYSTEM

- A field monitoring system enabling farmers to remotely track field conditions. Data is stored in the cloud and visualized through graphs and pie charts, providing clear insights into field status.
- Uses the ESP-NOW Protocol to communicate between the fields and home.
- · Data is stored in ThingSpeak by MathWorks

WIRELESS WATER LEVEL MONITORING SYSTEM (COMMUNITY PROJECT)

• A water level monitor designed to enhance safety and ease during overhead water tank maintenance, with wireless data transmission to maintenance authorities.

PORTABLE WATER PURITY TESTER (PATENTED)

- Patent Application Number: 202341087033 A
- · A portable water purity tester designed for on-the-go water quality testing.

SMART DOOR LOCK USING LI-FI

 A smart door lock utilizing Li-Fi technology for enhanced speed, security, and effectiveness, allowing doors to be unlocked using a phone's flashlight.

Publications

Vaishnay, S. G. (2023). Star Location Pointer using MATLAB. Jnana Chilume, 6th Annual Series of National Conferences.

Vaishnav Sabari Girish Curriculum vitae