Vijaylaxmi Ittannavar

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PROFILE

Aspiring and motivated C++ developer with strong foundation in object-oriented programming, data structures, C programming and windows internals and background with embedded system aiming to build successful career by contribution my skills.

PROFESSIONAL EXPERIENCE

UST Global, India | March 2025 – present

- Working as **C++ developer I**.
- Under the training of C++.
- Mastered with C++, window internals, oops, data structure.

Transcend Satellite Technologies, Bengaluru, India | September 2024 – February 2024

- **Embedded software Intern -** Developed software for **ISRO's Digital Twin Spacecraft Project**, focusing on **payload and Quad Mag board using ARM** Cortex **M7.**
- Integrated and tested **sensors:** BMP581, LSM6DSOTR, SI1153, ADC, WBGT, SAR, and MUX.
- Optimized firmware using **Embedded C, RTOS, and debugging tools**.
- Familiar with protocol **I2C, SPI, UART.**

Embedded Course | August 2023 – May 2024

- Completed **Advanced Embedded Systems training** at **Emertxe Information Technologies, Bangalore.**
- Gained expertise in **microcontroller programming, firmware development, and real-time embedded systems**.

College Internship – GTTC, Chikodi, India | May 2022 – June 2022

- Pick and place the ROBOT.
- Welding of ROBOT.

SKILLS

Primary skills: C++, C Programming

Secondary skills: Embedded C.

Embedded Systems: RTOS, Microcontrollers (ARM Cortex M7, PIC18F4580)

Development Tools: GIT, Vim, GCC, XC8, Visual studio

Protocol: I2C, SPI, UART

Operating Systems: Linux, Ubuntu, Windows

Soft Skills: Problem-Solving & Analytical Thinking, Strong Written & Verbal Communication, Leadership & Team Collaboration, Creativity & Innovation, Customer Interaction & Technical Documentation.

EDUCATION

KLE College of Engineering and Technology, Chikodi, India

Bachelor of Engineering in Electronics and Communication

August 2017 – May 2023 | CGPA: 8.23

KLE PUC Chikodi.

2019 | Percentage: 77.6

SSLC Chikodi.

2017 | Percentage: 97.6

PROJECTS

Hobby Projects:

Steganography

- Developed LSB Image Steganography for secure data hiding using RGB color coding, useful in military applications.
- Implemented file operations, pointers, structures, user-defined types (UDT), and DMA.

Car Black Box

- Developed a smartphone-linked black box that records speed, location, distance, and driving frequency.
- Utilized I2C, UART, timers, interrupts, and CLCD for data processing.

Inverted Search

- Built an inverted index for fast full-text search using linked lists, hash tables, file operations, and pointer.

Academic project:

Vehicle-to-Vehicle Communication

- Designed a system to reduce road accidents and vehicle collisions.
- Used Li-Fi, IR sensors, ultrasonic sensors, Arduino UNO, and LCD, with event storage in external EEPROM**.**

Vending Machine Implementation using HDL

- Designed an automated vending machine system with balance money return functionality.
- Implemented state machines and control logic for user interaction.
