Contact

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Address

Vijayanagar, Bangalore

Education

2022

Bachelor of Engineering (EEE)

AITM , Bhatkal

Skills

Programming Languages

- C
- C++
- Python
- Embedded C

Microcontrollers

- ARM(LPC2129)
- ESP32
- Raspberry Pi & Pico
- STM32
- Arduino Uno & Mega
- Node MCU

Protocols

- UART
- I2C
- SPI
- CAN
- USART

Nelson Vaz

Embedded Firmware Developer

Dedicated and skilled in Embedded C, C++ and ARM with around 2 years of experience in Embedded Firmware development. Seeking opportunities to leverage my expertise in Embedded solutions to contribute to innovative projects.

Experience

Aislyn Technologies Pvt Limited, Bangalore (Oct 2023 - Present)

Senior Embedded Developer

- Lead the development and deployment of embedded systems across academic, industrial, and small-scale industry domains, delivering innovative solutions tailored for engineering, postgraduate, and real-time industrial applications.
- Collaborate with students and clients to understand project goals, define technical requirements, and implement customized embedded solutions.
- Drive the end-to-end development lifecycle from requirements analysis and hardware integration to firmware development, testing, and deployment.
- Develop and deliver projects involving automation, IoT applications, robotics, and real-time control systems used in academic research and industrial demonstrations.
- Act as a mentor and technical advisor for junior developers and student interns, providing guidance on system architecture, coding practices, and debugging strategies.
- Optimize embedded systems for performance, reliability, and power efficiency while ensuring adherence to project timelines and quality standards.
- Conduct hardware & software integration, testing, and validation to ensure system robustness under real-world conditions.
- Create and maintain comprehensive technical documentation, including design diagrams, test plans, user manuals, and final reports.
- Regularly coordinate with clients, faculty, and team members to present project progress, gather feedback, and incorporate improvements.
- Proactively identify system issues and lead troubleshooting efforts to minimize downtime and improve project outcomes.

Professional Training – Vector India, Bangalore (Oct 2022 – Apr 2023)

Embedded Systems

- Completed a 6-month intensive training program focused on Embedded Systems and real-time system development.
- Gained hands-on experience in system programming, RTOS concepts, multitasking, synchronization, and task scheduling.
- Worked on real-time embedded applications using industry-standard tools and development environments.
- Understood system-level design, debugging techniques, and integration of software with hardware components.
- Participated in practical labs and projects simulating real-world embedded system challenges.

Declaration:

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Regards,

Nelson Vaz