Sharanabasappa P Cheeli - Embedded Engineer

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# Professional Summary

Embedded Engineer with 2.8 years of experience in firmware development, embedded systems design, and hardware-software integration. Skilled in C/C++, PCB design using KiCad, and communication protocols such as SPI, I2C, and UART. Proficient in system testing, debugging, sensor integration, and delivering robust embedded solutions aligned with EMI/EMC compliance. Date of

# Core Skills

* Embedded Systems & Firmware: C/C++, Microcontrollers (ATmega, ESP32)
* PCB Design & Hardware: KiCad, Power Electronics, BOM, Gerber Generation
* Protocols: SPI, I2C, UART, CAN
* Testing & Debugging: Sensor/Actuator Integration, Oscilloscope, EMI/EMC
* Documentation: FMEA, User Manuals, Technical Reports
* Project Tools: Arduino, Visual Studio Code, Excel, MS Office

# Professional Experience

Flywheels Embedded Research Pvt. Ltd. Embedded Engineer | Jun 2024 - Present

* Developed firmware for embedded products with automated test solutions.
* Designed PCBs, managed BOMs, and created Gerber files for fabrication.
* Ensured project compliance with performance, EMI/EMC, and reliability standards.

SIMS Healthcare Pvt. Ltd.

Embedded Trainee Engineer | Aug 2022 - May 2024

* Conducted system integration testing and authored test documentation.
* Created user manuals and streamlined engineering workflows.
* Led onsite testing and validation for hardware and embedded systems.

# Education & Certifications

Bachelor of Engineering in Electrical and Electronics VTU Board, Belgaum | 2022

Certification:

Master in Embedded and IoT Systems

# Tools & Technologies

KiCad | Arduino | Oscilloscope | SMPS | PWM | Excel | MS Office

# Languages

English | Kannada | Hindi | Telugu