KOWSALYA S

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Profile

Engineer with 1 year of experience, transitioning into embedded systems development. Passionate about hardware-software integration, with a keen interest in Embedded C, microcontrollers, and circuit design. Eager to explore firmware development, system optimization, and innovative embedded solutions. Seeking opportunities to apply problem-solving skills, learn advanced technologies, and grow as an embedded engineer in a dynamic environment.

Education

- **B.E Electronics and Communication Engineering** | June 2024 | Anna University regional campus, Coimbatore | CGPA 8.31
- **HSC** | March 2020 | Vaagai Vidhyalaya Hr. Sec. School | Final grade: 86.33%
- **SSCL** | March 2018 | Govt. Girls Hr. Sec. School | Final grade: 87.4%

Skills

- **Programming:** C, Embedded C
- **Platforms:** CodeBlocks, MPLAB X IDE, Keil uVision, STM32CubeIDE, Proteus
- **Microcontrollers:** 8051, PIC16F877A, PIC18F87K22, STM32F401RE
- **Communication Protocols:** SPI, I2C, USART
- **Interpersonal skills:** Collaborative, Time management

Experience

QUALITY CONTROL ENGINEER | TELEKONNECTORS PRIVATE LIMITED | MARCH 2024 – PRESENT

• Conducting IQC inspections for SKD, CKD, and bought-out FG using testing, visual inspection, measurement, and fitment analysis.

• Executing OQC for production FG (headsets, adaptors) using TrueRTA, CRY, and visual inspections to ensure performance and compliance.

• Overseeing IPQC at the production line, maintaining product consistency and adherence to quality standards.

• Inspecting and validating components for defects, dimensional accuracy, and functional reliability.

• Collaborating with cross-functional teams to address quality issues, implement corrective actions, and optimize processes.

• Verifying NPA, ECN, and PDA files, reviewing product testing reports and documentation for regulatory and internal standards.

Certifications

- **Embedded** | April 2025 (4 months course) | Pumo Technovation -Certification course
- Industrial based Embedded system development with IoT – internship
- 2 days workshop on analog circuit design using discrete components - workshop

Project

SMART CLASSROOM ATTENDANCE & ENVIRONMENT CONTROL SYSTEM (PIC18F87K22, EMBEDDED C)

Developed a smart classroom attendance and environment control system using the PIC18F87K22 microcontroller on the MPLAB platform. The system used dual USART for RFID-based entry/exit, I²C for RTC integration, and an LCD to display real-time data. Automatic fan and light control was implemented based on student count, along with door control and LED indicators for valid/invalid access. The project was designed, simulated, and tested using Proteus.

Activities and Interests

- Drawing & Painting,
- listening music
- Home Gardening