



Yerrapothu Vasu

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Objective

Motivated and detail-oriented Embedded Engineer with a strong foundation in embedded systems, microcontroller programming, and hardware-software integration. Seeking an opportunity to apply my skills in firmware development and embedded software design to contribute to innovative projects.

Technical Skills

- - **Programming Languages:** C, C++, Python, Embedded C
 - **Microcontrollers & Processors:** ARM, ESP32, Arduino, Raspberry Pi
 - **Communication Protocols:** UART, I2C, SPI, CAN, RS485
 - **Embedded Systems:** RTOS, Device drivers
 - **Development Tools:** Keil, Arduino IDE
 - **Instrumentation & Sensors:** Temperature Sensors (RTD, Thermocouple), Pressure Sensors, Flow Sensors, Proximity Sensors
 - **Industrial Automation:** PLC Programming, SCADA Systems
 - **Circuit Design & Simulation:** PCB Design (KiCad), LTSpice
 - **Version Control:** GitHub/GitLab
 - **Debugging Tools:** Logic Analyzers, Oscilloscopes

Experience

- **YAGA TECHNOLOGIES PVT LTD** 02/07/2024 -
Embedded engineer
 - Developed and optimized firmware for microcontroller-based systems.
 - Integrated and debugged real-time operating systems (RTOS) for performance efficiency.
 - Developed communication interfaces using SPI, I2C, and UART for embedded devices.
 - Collaborated with hardware engineers to ensure seamless integration between software and hardware components.
 - Conducted hardware debugging using oscilloscopes, logic analyzers, and protocol analyzers.
 - Wrote test scripts and automated testing frameworks to validate embedded firmware.
 - Maintained version control using Git and documented project development.

Projects

- **Real-time monitoring and control of a chemical reactor**
 - Design and Developed the real-time monitoring and control of temperature, pressure, and flow in a chemical reactor.
 - Implemented PID control algorithms to optimize reactor stability and efficiency.
 - Conducted hardware testing and calibration to ensure high accuracy in sensor readings.

Education

- **ZP high school ramavarappadu** 2018
10th class
6.7
- **AANM & VVRSR polytechnic gudlavaluru** 2021
Diploma in Applied Electronics and Instrumentation engineering
78.6%
- **Adikavi Nannaya University** 2024
B.Tech in Electronics and instrumentation Engineering
8.3

Soft Skills

- - Problem-solving and analytical thinking
 - Team collaboration and communication
 - Attention to detail and debugging proficiency
 - Adaptability and quick learning
 - Strong documentation and technical writing skills
 - Process control and optimization

Languages

- English
Telugu
Hindi(Beginner)