

SHITAL GAWADE

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Summary

Passionate and detail-oriented Embedded Engineer having 1 year of experience in electronics field with strong foundation in embedded system, communication protocol and problem solving. Eager to contribute technical expertise to design, develop, and validate innovative solutions, driving next-generation experiences. I aim to design, implement, and troubleshoot efficient systems that ensure product reliability and excellence.

Education

Bachelor of Electronics and Telecommunication Engineering

August 2018 - August 2021

Savitribai Phule Pune University (SPPU) (7.1 CGPA)

Pune

Relevant Course

Diploma in Embedded system

- Gained expertise in Embedded C programming embedded system.
- Expertise in device driver development for various hardware architectures.
- Hands-on experience with PIC, ARM Cortex, and Arduino micro controllers
- Developed BSP for microcontrollers.
- Programmed and debugged GPIO, PWM, Timer, ADC, Interrupt, UART
- Worked extensively with development IDE for debugging and simulation.
- Acquired knowledge of communication protocols
- Completed a embedded project

Technical Skills

Programming Languages:: Proficient in C and C++, Linux environment

Microcontrollers:: 8-bit and 32-bit microcontrollers (PIC18F4580, ARM cortex-M4, LPC2148) and Arduino

Communication Protocol: Familiar with UART, SPI, I2C, MODBUS, CAN protocols

Hardware Interaction: Basic understanding of hardware interfacing including LEDs, LCDs, sensor.

Software/Tools: DevC++, Keil, MPLAB, Arduino IDE, STMCube32 IDE, Proteus, Git

Version Control: Git Bash

Experience

Diya Electronics Pvt Ltd

July 2023 - July 2024

Design Engineer

Pune, India

- Proficient in PCB design using CAM350, creating reliable and efficient circuit layouts for streetlight applications.
- Collaborated with cross-functional teams to define and document project requirements, ensuring alignment with product specifications.
- Proficient in engineering documentation, including creating functional block diagrams and data/logic flowcharts.
- Experienced in assembling electronic circuits, adhering to quality standards and ensuring accurate component placement.
- Conducted rigorous testing procedures to verify circuit functionality and performance, identifying and rectifying defects.
- Provided technical assistance to the production team, resolving issues and optimizing manufacturing processes.
- Verified the accuracy and integrity of Gerber data using CAM350, ensuring seamless manufacturing processes.
- Analyzed Gerber data to identify potential design flaws or manufacturing challenges, optimizing the overall design.

Sunshine Powertronics Pvt Ltd

June 2020 - November 2020

Intern

Pune, India

- Gained practical experience in handling electronic components, including digital multi-meter, oscilloscopes, and power supplies
- Triage hardware issues using schematics, data sheets, and debugging tools.
- Assist senior in performing system testing, design evaluation, and requirement allocation for optimized performance.
- Experienced in developing reusable software subsystems
- Skilled in creating comprehensive documentation for software systems and interfaces.
- Gained Knowledge about software lifecycles
- Contributed to the development of LED driver

Projects

Industrial motor controller

November 2023

- Implemented I2C communication protocols to transmit sensor data to a centralized monitoring system for analysis and alerts.
- Programmed micro controllers to process and analyze sensor data
- Successfully implemented a robust motor control system that improved operational efficiency

Data Logging and Analysis system

December 2024

- Designed and implemented a data logging system using micro controller
- Configured ADC to collect sensor data
- Stored data in external EEPROM using I2C communication

Key Strengths

- Strong time management skills with the ability to prioritize multiple tasks
- Excellent verbal and written communication
- Proven ability to collaborate in small team environments and interface with customers to meet project goals.
- Keen interest in continuous learning and technology exploration.
- Strong problem-solving abilities with practical application of professional concepts.