

# SARITHA INGILALA

Contact: 9550722752

Email: [sarithaingilala228@gmail.com](mailto:sarithaingilala228@gmail.com)



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## **OBJECTIVE:**

I seek challenging opportunities where I can fully use my skills for the success of the organization and can get successful career. I only believe that hard work and dedication towards work matter.

## **EXPERIENCE:**

### **Worked As Embedded Software Engineer In Argus Embedded Systems Pvt Ltd Since April 2024 To October 2024**

- Enabled GPIO pins and implemented LED blinking on the STM32F407VET6 vigil board using STM32Cube IDE.
- Configured input pins to handle increment and decrement operations using switches.
- Enabled debug UART and implemented PWM control for the buzzer.
- Configured internal and external flash memory functionalities.
- Interfaced all required hardware components with the STM32F407VET6 microcontroller.
- Utilized Arduino IDE for GPIO management and LED control on the ESP32 microcontroller.
- Configured switches for on/off states and enabled debug UART on the ESP32.
- Implemented I2C communication with BMP280, SHT21, and DHT22 sensors, and EEPROM.
- Configured Wi-Fi settings and Access Point (AP) mode for the ESP32.
- Established UART communication between STM32 and ESP32 for Wi-Fi and MQTT server integration.
- Integrated a fingerprint sensor with the ESP32 microcontroller for an IoT project.
- Set up Nvidia Jetson Nano for image detection tasks using Python.
- Installed necessary Python libraries on the Ubuntu Linux environment of Jetson Nano.
- Developed a motor driver interface using TSM320F28027F microcontroller and DRV8301 with UART and I2C protocols.

### **Worked As Lab In-charge In Kernel Masters Since January 2023 To March 2024**

- Provided technical guidance and programming support in embedded systems and microcontroller development.
- Supported trainees in C programming and debugging techniques for complex problem-solving.
- Conducted hands-on sessions on microcontroller interfacing, sensor integration, and real-time application development.
- Monitored trainee progress, provided feedback on projects, and resolved technical issues effectively.
- Guided trainees in hardware interfacing and debugging, including connecting sensors, actuators, and communication modules.

- Configured and initialized microcontroller boards like STM32 and ESP32 for lab sessions.
- Developed a Smart Weather Monitoring System using STM32F401RBT6, LM-35 temperature sensor, RTC, and ESP8266.
- Ensured efficient operation and integration of the Smart Weather Monitoring System in practical lab sessions.

#### **Worked As Trainee In Isuzu Motors Pvt Ltd Since May 2022 To November 2022**

- Conducted quality checks on vehicles to ensure compliance with company standards.
- Inspected vehicle components for defects and specification deviations.
- Collaborated with senior engineers to troubleshoot and resolve quality issues.
- Performed visual inspections and functional tests for vehicle safety and performance.
- Documented inspection findings and reported quality concerns to relevant departments.
- Followed safety protocols and company guidelines during inspections.
- Provided feedback on recurring issues to improve quality control processes.
- Contributed to quality assurance, ensuring vehicles met high standards before customer release.

#### **Worked as Team Leader In Bhart FIH Since July 2021 To April 2022**

- Led a team in the Kitting Department for efficient component assembly.
- Managed the kitting process to maintain high quality standards.
- Coordinated with cross-functional teams for timely kit delivery.
- Ensured compliance with safety standards and company protocols.
- Monitored team performance and provided guidance for efficiency.
- Conducted quality checks to ensure accurate component assembly.
- Optimized workflow by identifying bottlenecks and improving processes.
- Trained and mentored team members in kitting procedures.
- Reported progress and challenges to management for proactive solutions.
- Ensured high-quality kitting operations, contributing to project success.

### **EDUCATION:**

#### **2019 PASSED OUT**

**BTECH, AUDISANKARA COLLEGE OF ENGINEERING & TECHNOLOGY**  
OBTAINED WITH 69%

#### **2015 PASSED OUT**

**INTERMEDIATE, APSWRS JONIOUR COLLEGE**  
OBTAINED WITH 76%

#### **2013 PASSED OUT**

**10<sup>TH</sup>, APSWRS SCHOOL**  
OBTAINED WITH 72%

## **CERTIFICATION:**

- Embedded AI Software Developer at Kernel Masters in March 2024
- Internship at APGENCO in March 2018

## **SKILLS:**

- C Programming and Debugging
- Hardware Integration and Troubleshooting
- Quality Assurance and Control
- Team Leadership and Workflow Optimization
- Real-Time Application Development
- Technical Documentation and Reporting
- Microsoft Office skills

## **STRENGTHS:**

- Strong Problem-Solving Skills
- Quick Learner and Adaptable
- Excellent Team Leadership and Collaboration
- Detail-Oriented and Quality Focused
- Effective Communication and Reporting

## **INTRESTS:**

- Listening To Music
- Learning New Technologies and Programming Tools
- Web Surfing for New Technologies
- Travelling

## **PERSONAL DETAILS:**

- Languages : English and Telugu
- Gender : Female
- Marital Status : Unmarried
- Nationality : Indian