

THAMMISSETTY DEVARAJU

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Professional Summary

Electronics and Communication Engineering graduate with hands on experience in embedded systems design, Firmware Testing and IoT solutions. Skilled in microcontroller programming (ATSAM, Arduino), wiring harness design, and MQTT based communication. Contributed to real world projects like the **E-Tea Harvester**, ESM-32 Controller, KU-Band Controller and **Andon Display System** with a focus on testing, integration, and diagnostics. Has onsite experience and worked in the projects of Bharath Electronics Limited(**BEL**) as part of onsite.

Education

Bachelor of Technology in Electronics and Communication Engineering
[Lakireddy Bali Reddy College Of Engineering, Mylavaram](#)
Board of Intermediate Education
[Sri Chaithanya Junior College, Guntur](#)

Jul 2020 - Aug 2024
CGPA - 8.21
Mar 2018 - May 2020
CGPA - 9.5

Professional Experience

Robo6 Controls & Automation Pvt Ltd | Sep 2024 – Present

Embedded Systems | Design Engineer

Project 1: E-Tea Harvester

- Contributed to the development of **R1MC1** (main controller) for smart **E-Tea Harvester** used in automated tea leaf collection.
- Integrated **R1TD1** (traction driver) and **R1MDPM1** (vertical motor driver) modules with the main controller.
- Designed, assembled, and tested custom wiring harnesses for embedded modules.
- Executed test strategies to ensure performance, reliability, and fault tolerance.
- Assisted with operational control validation, IP rating (water resistance) tests, and system debugging.
- Gained experience with **ATSAM** based microcontroller development and embedded automation.

Project 2: Andon Display System (MQTT-based)

- Developed a real time display system using **MQTT** protocol for communication.
- Integrated the display with a custom gateway controller and Arduino Nano for Wi-Fi support.
- Assisted in software updates and fault diagnostics of display units.
- Contributed to system recovery efforts by troubleshooting and restoring non functional units.
- Strengthened expertise in IoT communication, embedded diagnostics, and maintenance.
- Deployed Andon displays and updated existing systems during a site visit to the TATA Advanced Systems plant.

Technical Skills

- Programming Languages:** C
- IDEs/Development Tools:** MPLAB X IDE, VS Code, Arduino IDE, EasyEDA
- Testing Tools:** Logic Analyzer, MQTT Explorer, Qcom, WireShark, CRO (for signal analysis), ATMEL-ICE Programmer
- Hardware Skills:** System Integration, Hardware Testing, Schematic Design, Wiring Harness Design
- MicroControllers:** Arduino (Uno, NanoRP2040), ATSAME51J20A, ATSAME54P20A ARM Cortex-M4

Internships

SRC-E SOLUTIONS

Feb 2024 – Jul 2024

Internet Of Things (IoT)

- Gained practical exposure to Arduino and Raspberry Pi, focusing on sensor integration and data communication.
- Designed two IoT based mini projects utilizing automation and sensor networks
- Developed understanding of cloud-based IoT workflows and wireless data handling.

Academic Projects

- **Wideband Antenna Design (Published in IEEE):** Designed a wideband antenna supporting Wi-Fi, WiMAX, and C-band frequencies; published **in IEEE**.
- **Automatic Plant Watering System (IoT):** Developed a system using soil moisture sensors and Arduino to automate plant watering.

Achievements

- Presented a research paper at the IEEE International Conference held at Karunya Deemed University, showcasing work on design and analysis of a wideband defected ground structure (DGS) antenna incorporating a novel metamaterial (MTM) slot on April, 2024.
- College Fest Coordinator for Lakshya at LBRCE. Led a team of 4 members, managed logistics, and executed successful cultural and technical events.
- Played zonal level volleyball for my school, where I learned the value of teamwork, discipline, and competing with a strong sportsman spirit.
- Actively participated in NSS (National Service Scheme), contributing to community service programs, blood donation camps, and social awareness campaigns.