

REJIN RAGHURAM

EMBEDDED ENGINEER



CONTACT

+91- 7306344879

rejinraghuramkk@gmail.com

Bangalore,Karnataka

[Rejin - LinkedIn](#)

PROFILE

Passionate and driven **Embedded Software Engineer** with two years of software development experience and extensive training in embedded systems. **Skilled in firmware development, microcontrollers, RTOS, and communication protocols (UART, SPI, I2C, CAN). Proficient in C, C++, and embedded C, with a strong focus on hardware-software integration, debugging, and optimization.** Eager to build innovative and efficient embedded solutions for real-world applications.

TECHNICAL SKILLS

- **Programming Language:** C, C++, Python, Embedded C.
- **Software Tools:** MATLAB-Simulink, LabVIEW, HTML, MS- Office, SIEMENS TIA portal, MS Powerpoint , SQL, MS Word, Proteus, µVision IDE - KEIL, Visual Studio, LabVIEW
- **Operating System:** Windows, MacOS, Ubuntu.
- **Circuit Boards & Controllers:** Arduino, ATmega328p.
- **Protocols:** CAN, SPI, UART, I2C.

EDUCATION

Professional Training

AUG 2024-PRESENT

Embedded engineer - Vector India, Bangalore

- **Programming Proficiency:** Strong foundation in C and C++, focusing on memory management, data structures, and efficient coding techniques for embedded applications.
- **Embedded C Development:** Hands-on experience in writing firmware for microcontrollers, optimizing low-level code, and interfacing with peripherals.
- **Linux Internals:** Deep understanding of process management, inter-process communication (IPC), memory management, and system calls in a Linux environment.
- **TCP/IP Networking:** Gained expertise in socket programming, network protocols, and debugging communication between embedded devices.
- **ARM Architecture & Microcontrollers:** Worked with ARM-based processors, understanding instruction sets, interrupts, registers, and peripheral interfacing.
- **Real-Time Operating Systems (RTOS):** Practical experience in task scheduling, synchronization mechanisms (mutex, semaphores), and memory management in real-time environments.

B.Tech in Electrical and Electronics Engineering

2018 - 2022

Muthoot institute of technology and science, Kochi.

- Course - Electrical machines, Electromagnetic theory, Signal processing, Power electronics, Control Systems, Computer programming
- CGPA-7.34

PROJECTS

Rocket Telemetry

Dec 2020- Feb 2021

Developing a system for evaluating the real-time projectile of the rocket and fetching the flight data in real time. (RTOS)
Expertise: ATmega 328p, MPU6050 Accelerometer-Gyroscope, L293D Driver IC.

PC Based Data Acquisition System

Jan 2025

Data acquisition system is an embedded system which converts analog value to digital value and displays on the display. This project contains a temperature sensor, pressure sensor, and an LDR sensor. This system will continuously monitor the temperature, pressure and light intensity.

Employee Attendance System Using RFID

April 2025

Engineered an automated attendance tracking system using RFID technology integrated with microcontroller-based logic and LCD output. Streamlined data acquisition and ensured real-time clock synchronization.

TECHNICAL SKILLS

- .Postman API
- Swagger API
- Cypress
- Linux commands
- Agile methodologies
- SQL
- PostgreSQL
- Bitbucket
- Regression testing
- Web testing
- Desktop testing
- Test case preparation
- Test case validation
- JIRA

LANGUAGE

- **English** 100%
- **Malayalam** 100%
- **Hindi** 70%
- **Tamil** 50%

CERTIFICATIONS

- Siemens -Sitrain Training For Industry
Basic course on PLC S7 1200/S7 1500 V14
- Deep Learning – AI : Completed an online course in deeplearning and Artificial Intelligence from coursera.

WORK EXPERIENCE

Software Engineer

SEPT 2023-FEB 2024

Sensen Networks | Hyderabad

Project 1 - Senforce

- Utilized Linux commands to deploy web applications on local systems and tested user stories individually post-deployment.
- Developed custom SQL queries for user stories.
- Performed API testing for user stories requiring API support using tools such as Postman and Swagger.
- Created and executed test cases.
- Reported and logged bugs using JIRA.

Project 2 - BCC

- Utilized Linux commands to deploy web applications on local systems and tested user stories individually post-deployment.
- Developed custom SQL queries for user stories.
- Conducted regression testing for every release.

Associate Software Engineer

FEB 2022-JULY 2023

[Advanced Health care and Solutions] Bangalore

Project 1 - Eprocurement and Purchase Invoice Manager

- Analyzed requirements from user stories and formulated test scenarios accordingly.
- Created and reviewed test cases.
- Conducted web testing.
- Reported and logged bugs using JIRA.
- Conducted regression testing.
- Contributed to achieving story points in every release as part of the team effort.

Project 2 - Cloud Marketplace

- Analyzed requirements from user stories and formulated test scenarios accordingly.
- Reported defects, attached artifacts, created, and reviewed test cases, and conducted regression testing in every release.
- Demonstrated each user story at the time of release.
- Reported and logged bugs using JIRA
- Conducted web testing.
- Contributed to achieving story points in every release as part of the team effort.
- Verified the API functionality of user stories utilizing Postman and Swagger APIs.