

E.RAGHU PRASAD,

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Experience Summary:

Embedded Firmware Engineer with **2+ years of experience** in software development and implementing the efficient and reliable software solutions for various embedded systems, using **C, Embedded C, and C++**, With a solid understanding of Micro controllers and the Communication protocols (**UART, I2C, MQTT, SPI**), and Hardware-Software Integration. Adopt at Troubleshooting, optimization of system performances and delivering Innovative solutions. Seeking a challenging role to leverage my technical skills and contribute to the cutting-edge projects in the embedded system domain.

- Proficient in **communication protocols** (MQTT, I2C, UART, SPI).
- Strong in C programming Language.
- Demonstrated experience in **real-time systems**, simulation environment.
- Proficient in tools like **JIRA, Git**, and automation frameworks for continuous integration.
- Domain expertise in **EVSE** and **Battery Management Systems**.

Educational Qualification:

2018 - 2021: I Completed B. Tech in EEE at Sri Chaitanya institute of technology and sciences at Karimnagar under JNTUH University, Securing 69%.

2015 – 2018: I Completed a Diploma in Electrical and Electronics Engineering (EEE) at Jyothishmathi Institute of Technology and Sciences, Karimnagar, under SBTET University, securing 78%

2014-2015: I Completed my SSC at Hyderabad, Secured with a 72%.

Technical Sills:

Programming Languages: C, Embedded C, Basic knowledge on C++.

Operating Systems: Linux –Ubuntu OS, Windows.

Microcontroller/Microprocessor Platforms: Micro controller, Arduino, Esp32, LPC236.

Communication Protocols: UART, SPI, I2C, MQTT.

Real-Time Operating Systems (RTOS): RTOS.

Development IDE Tools: Keil µVision, Visual Studio, ESPREESIF, Arduino.

Protocols and Standards: USB, WIFI, BLE.

Hardware Debugging Tools: JTAG Debuggers, Logic Analyzers, PUTTY.

Version Control Tools: Git.

Project ManagmentTools: JIRA.

Professional Experience :

Experience 1:

Current Job Title: Embedded Firmware Engineer.

Current Company: Techmologics Innovations Private Limited, **Location:** Hyderabad.

Start Date : January, 2023- July, 2023

Project Name : Battery Monitoring Identification Device.

Tools Used : Keil μ Vision (5.24 and 5.33 Version), Battery Rx Utility.

Microcontroller : LPC2362 NXP Semiconductors.

ABOUT : In this Project I have worked on the serial communication protocol which allows a Webasto industrial charger to communicate with a vehicle for the purpose of providing an optimal charging algorithm to the vehicle's battery and also to download data from the vehicle regarding its health and operational history.

Experience 2:

Job Title : Embedded Firmware Engineer.

Current Company : Techmologics Innovations Private Limited, **Location:** Hyderabad.

Start Date : July, 2023-Present.

Project Name : Dx2.1 (EVSE Charging).

Tools Used : Espressif IDE, Putty.

Microcontroller : ESP32S3, ESP32C3.

ABOUT : ESP32 as a BLE Peripheral (or BLE Server) with an Environmental Sensing Service. This service exposes measurement data from environmental sensors and supports a wide range of environmental parameters like temperature, humidity, pressure, and others. As an example, we'll use the measurements from a BME280 sensor, but this can be applied to any other sensor.

Achievements:

- Secured Distinction in academic profile in 3 years Diploma.
- In Vector India coaching Centre provides Certification for six months.
- Participated in "Two days National workshop of PCB Design".
- Participated in "One week workshop on fundamental of Mat lab software and programming".

Hobbies:

- Watching TV.
- Playing Cricket.
- Listening Music and Reading Books.

Training & Courses:

- Completed a six-month coaching on embedded training at Vector India, Hyderabad.
- In B.tech I had completed my Industrial training for 6 months In EEE.

Personal Details:

Name	: Raghu Prasad.E
Father Name	: Mallesh.E
Date of Birth	: 15-02-1999
Marital Status	: Unmarried.
Nationality	: Indian (Hindu)
Languages Known	: Telugu, English, and Hindi.

Declaration:

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Location: Hyderabad

(E.RAGHU PRASAD)