

**BHAVANI SHANKAR**

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### **Carrier Objective:**

Aiming to join a dynamic team of professionals as a Embedded Firmware Developer.where I can share my expertise and contribute to the success of the organization

### **Summary:**

- Working experience in requirement Analysis and Development in Embedded Systems.
- Working Experience in **Embedded C and C programming.**
- Basic of knowledge in **automotive.**
- Experience in Serial **Communication** Protocol Driver Development like **UART,I2C,SPI,ADC and CAN.**
- Experience in Different 8/16/32 bit Micro controller (**STM32, ESP32**).
- Working experience in Embedded **Wireless** Communications like **Bluetooth,wifi.**
- Experience in Agile software development cycles.
- Working experience in **FREE RTOS and MQTT.**
- Experience in SWRS Documentation Writing using Client templates.
- Good Hands-on experience in process management tools like **GIT. JIRA**
- Good experience in GIT, Debugging, and performance analysis tools in Linux.
- Actively involved in troubleshooting platform-level hardware and software issues.
- Worked on Test Plan preparation and executing test cases.
- Familiar with the Make file and Compilation process.
- Worked on logging techniques of my test cases.
- Familiar with embedded systems and driver development

### **Technical Skills:**

**Programming Languages** : C, Embedded C,Basics C++.

**Operating System** : Linux & Window.

**Development Tools** : ST cube, STM32 CUBE, ArduinoIDE,ESP32.

**Debugging Tools** : ST link.

**Version Control** : JIRA, GIT.

**Communication Protocol** : UART, I2C, SPI, and CAN.

## Experience Summary:

- I have 3.10+ years of experience in Embedded Software Engineer in **Acentus Info Solutions Pvt Ltd (Client :-Toshiba) .**
- I have experience as Senior Developer in Embedded Software Engineer in **Marcn Technologies Pvt Ltd .**

## Project Summary:

### Project #1: Wireless Digital Board.

#### Project Description:

In This Project low cost flexible and reliable monitoring Display and control system with additional security using ESP32, with IP connectivity through local Wi-Fi for accessing and controlling devices by formal user remotely using android smart phone application. To demonstrate the effectiveness and feasibility of this system, in this we presents a Debugging system by using ESP32.

**Type of IDE:** ESP-IDF,Arduino IDE.

**Board Contains:** ESP32 , ESP8266,OLED Display.

#### Considerations:

- Development of Application for the requirements.
- Developing the UART,OLED Display and MQTT Configurations.
- Documentation activities related to requirements and process.
- Worked on Test Plan preparation and executing test cases.

### Project # 2:- BATTERY MANAGEMENT SYSTEMS (BMS) ( Client:- Toshiba)

#### 1. Battery management systems (BMS) for EV vehicles

#### Project Description:

Battery management systems (BMS) are electronic control circuits that monitor and regulate the charging and discharge of batteries. The battery characteristics to be monitored include the detection of battery type, voltages, temperature, capacity, state of charge, power consumption, remaining operating time, charging cycles, and some more characteristics.

**Development Platform:** Stcubeide, STM G474RE, ST Link.

#### Roles & Responsibilities:

- Development of Application for the requirements using c programming .
- Release/Features Planning and Coordination with cross-functional teams.
- Bug fix for internal and external defects.

### **Project-3:- BATTERY MANAGEMENT SYSTEMS (BMS)(Marcn Technologies pvt Ltd)**

#### **Project Description:**

Battery management systems (BMS) are electronic control circuits that monitor and regulate the charging and discharge of batteries. The battery characteristics to be monitored include the detection of battery type, voltages, temperature, capacity, state of charge, power consumption, remaining operating time, charging cycles, and some more characteristics.

**Development Platform:** arduinoIDE, ESP32.

#### **Roles & Responsibilities:**

- Development of Application for the requirements using c programming and CAN protocol.
- Release/Features Planning and Coordination with cross-functional teams.
- Bug fix for internal and external defects .

#### **Declaration:**

I Hereby declare that the particulars given above are true and faith to the best of my knowledge and belief.

**Place: Bangalore.**

**Date:**

**( SHANKAR)**

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