

ANEESH M

EMBEDDED SOFTWARE ENGINEER

PROFESSIONAL SUMMARY

Innovative and detail-oriented embedded software engineer with over one year of experience in designing, developing, and optimizing embedded systems. Proficient in C/C++, real-time operating systems, and hardware interfacing. Skilled at troubleshooting and debugging complex system-level issues while prioritizing performance and reliability. Demonstrated success collaborating with cross-functional teams to deliver high-quality, innovative solutions. Dependable and innovative problem-solver with a keen interest in embedded systems and a solid foundation in software engineering principles. Possesses a thorough understanding of C/C++ programming and real-time operating systems, along with hands-on experience in debugging and hardware interfacing. Ready to contribute to the development of cutting-edge embedded solutions, ensuring high performance and reliability.

WORK HISTORY

Embedded Software Engineer, 08/2023 to Current **chargeMOD - Trivandrum, Kerala**

- Designed and implemented embedded software for EV supply equipment, enhancing performance and reliability.
- Collaborated with cross-functional teams to develop software for the deployment of numerous EV charging stations across Kerala.
- Led debugging and troubleshooting efforts to identify and resolve system-level issues, improving overall system stability.
- Optimized software algorithms for efficient energy management and charging processes.
- Conducted software testing and validation to ensure compliance with industry standards and regulations.
- Utilized technologies such as C/C++, real-time operating systems, and hardware interfacing in project development.
- Worked within the R&D team to innovate and improve EV charging solutions, contributing to cutting-edge advancements in electric vehicle technology.
- Researched and implemented new methodologies to enhance product performance and efficiency.

Intern - Embedded System Development and Design , 05/2023 to 07/2023

Neona Embedded Labz - Kochin

- Gained hands-on experience in various software programs and hardware components increasing proficiency and expanding technical skill set.
- Developed organizational skills through managing multiple tasks simultaneously while adhering to strict deadlines.
- Supported staff members in their daily tasks, reducing workload burden and allowing for increased focus on higher-priority assignments.

Training on Automotive Embedded Software, 11/2022 to 03/2023

CONTACT

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SKILLS

- Embedded C programming
- Python and C++
- Microcontroller programming : STM32, ESP32, RL78, ESP8266, PIC, 8051, RASPBERRY PI, ARDUINO
- Software testing
- Firmware development
- IoT development : mqtt, http, ocpp, https, OTA, GSM, GPS, TCP/IP.
- Embedded systems debugging : Logic Analyzer,St-link,emulator,GDB.
- RTOS development
- Wireless communication :Bluetooth, wifi,
- Hardware-software integration
- Object-oriented development
- Automotive software development
- System-on-chip design
- Python scripting
- Embedded linux
- Memory management
- Communication protocols :SPI, I2C, UART, CAN, RS485
- Software development standards
- JSON mapping
- HTML
- Sensor integration
- Source and version control: git, github

Smartcliff Learning Solution - Coimbatore

- Developed organizational skills through managing multiple tasks simultaneously while adhering to strict deadlines.
 - Contributed to positive team environment by collaborating with fellow interns on group projects and presentations.
 - Gained hands-on experience in various software programs, increasing proficiency and expanding technical skill set.
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WEBSITES, PORTFOLIOS, PROFILES

- www.linkedin.com/in/aneesh-m-b72774266
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EDUCATION

Master of Science, Electronics, 08/2022

Calicut University - College of Applied Science - Chelakkara

GPA: 3.53 / 5

Bachelor of Science, Electronics, 04/2020

Calicut University - College of Applied Science - Chelakkara

GPA: 3.33 / 5

CERTIFICATIONS

- Automotive Embedded Software Engineer
 - Embedded System Design and Development
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ACCOMPLISHMENTS

- College Union Chairman
 - NSS Volunteer
 - Participation in University sports events for Athletics and Football.
 - Participated in the Science exhibition, Subdistrict level participation and got 3rd position for Math's Still Model.
 - Subdistrict level Participation on athletic meets and Arts.
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PROJECTS

LEVEL 1 AC SLOW CHARGERS -BB ,BB Mini ,BB Micro

- This project involves the development of different types of level 1 AC slow chargers with maximum output of 3.3 kw.

LEVEL 2 AC FAST CHARGER :Type 2 commercial , Type 2 Residential, Type 2 wifi

- This project Involves the development of different type of AC Level 2 chargers with maximum of output of 7.2 kw incorporated by the communication between vehicle and charger using the analog signaling according to the standard.

LEVEL 3 DC FAST CHARGER:

- This project Involves the development of different type of DC Level 3 chargers with maximum of output of 30 kw to upto 120 kw incorporated by the communication between vehicle and charger using the Power Line Communication according to the standard.

PERSONAL PROJECTS

Pollution Monitoring System:

- Developed the firmware to monitor water pollution using ESP32 and Modbus communication with pollution sensors.
- Displayed real-time data on a TFT display and published it to an MQTT broker using GSM or Wi-Fi for remote monitoring.
- Ensured efficient data communication and accurate environmental tracking through embedded software development.

LANGUAGES

English

Advanced (C1)
