

AMBRESH

Embedded Software Engineer

CONTACT

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PROFILE SUMMARY

As an Embedded Engineer with 2 years of practical experience, I bring a dedicated approach to designing, developing, and testing embedded systems. With a focus on firmware development, hardware-software co-design, and troubleshooting, my expertise aligns seamlessly with the specialized requirements of electric vehicle chargers design within the power electronics field.

EDUCATION

2018 - 2022

BE-EEE

GURU NANAK DEV ENGINEERING
COLLEGE BIDAR

2016-2018

PUC

GURU NANAK IND PU COLLEGE
BIDAR

2016

SSLC

ST. Joseph High School Bidar

WORK EXPERIENCE

March 2023 to Till

Embedded Software Engineer

- In my current role, I work with electric vehicle chargers handling currents of 20A to 50A, with voltage levels of 48V and 72V. I am responsible for coding and testing the software, as well as performing comprehensive hardware testing to ensure optimal functionality and reliability of these charging systems.

Roles and Responsibilities

- Write and develop code for embedded systems to meet client requirements.
- Test sensors, current, and voltage levels to ensure hardware functionality.
- Perform comprehensive debugging to identify and resolve software issues.
- Develop of 1Kw to 2.5Kw CAN and Non -CAN Battery Charger.
- Verification and Validation in the Testing of 1kW 1.5kW and 2.5kW Battery charger.
- Utilize extensive knowledge of the CAN protocol for communication system development and troubleshooting.
- Proficient in utilizing DAVE IDE for embedded systems development, including code generation, debugging, and project management.
- Collaborate with clients to understand and solve their technical problems.
- Experienced in working with the XMC 1400 microcontroller family, proficient in firmware development and system integration.
- Strong understanding and practical experience in implementing CAN communication interfaces, including message formats, arbitration, and error handling.

SKILLS

- C/C++
- Firmware Development
- Debugging
- Hardware and Software Testing
- UART, I2C, SPI & CAN Protocol
- Basic Knowledge on AUTOSAR
- Basic knowledge on UDS protocol
- Troubleshooting

LANGUAGES

- English
- Hindi
- Kannada

Development Tools

- DAVE IDE
- MPLAB IDE
- PCAN Analyzer tool
- Altium Designer