




Akhil Kummarikuntla

Embedded Software Engineer

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Resume Headline

Embedded Software Engineer | 3.2 Yrs Automotive | BMS, ASCET, ECU Testing, C/C++, CAN, ISO 26262

Professional Summary

Embedded Software Engineer with 3.2 years of automotive experience at Bosch projects for PIAGGIO, RECAR, and Mahindra. Specialized in BMS, Charger Calibration, and ASCET-based DC-DC Converter models. Skilled in C/C++, ASCET, MATLAB, CAN, INCA, CANoe, UDE with expertise in test automation, DOORS, MISRA, ASPICE, ISO 26262, and HiL safety testing.

Core Skills

Programming: C, C++, Embedded C, UML, XML

Model-Based Development: ASCET, MATLAB/Simulink, TPT, ECU-Test

Protocols: CAN, SPI, I2C, UART

Testing & Calibration: INCA, CANoe, UDE, MSSCCI, HiL Testing

Requirement Management: DOORS, ALM, BlueDocs

Standards: ISO 26262, ASPICE, MISRA

Professional Experience

HCL Technologies (Client: Robert Bosch) | Sep 2021 – Nov 2024 | Bangalore, India
Embedded Software Engineer – Automotive (BMS, Charger, DC-DC Converters)

- Developed ASCET-based models for BMS/EHB; ensured requirement traceability using DOORS.
- Designed & validated charger control logic (HV charging, fault detection, safety features).
- Automated test flows in ECU-Test, CANoe, INCA & TPT → reduced manual effort.
- Collaborated with German teams on testcase design & execution in UDE.
- Performed HiL safety testing (UEKO Check) before release.
- Developed CIF modules (MATLAB + DOORS) for charger & DCDC integration.
- Ensured MISRA compliance; supported ASPICE audits & ISO 26262 validations.
- Received customer appreciation mails for early & defect-free deliveries.

Projects Highlight

- PIAGGIO, RECAR, Mahindra (Bosch): Enhanced thermal management, developed ASCET DC-DC converter models, implemented CIF adapters for customer-specific signals, and performed charger calibration.

Education

B.E. Electronics & Communications | SCSVMV University, Kanchipuram | 2016–2020 | GPA: 7.2

Achievements

- “Pat on the Back” award for outstanding project contributions.
- Member of an outstanding delivery team at Bosch.
- Received customer appreciation mails for timely, defect-free releases.