

Saikrishna Nampelly

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Professional Summary:

Embedded Software Engineer with 4.5 years of experience in the automotive domain, specializing in AUTOSAR-based application software development. Expertise in microcontroller architecture, diagnostics (CAN, UDS) and compliance with ISO 26262 and ASPICE.

Work Experience:

Embedded Software Engineer | L&T Technology Services (Dec 2021 – July 2025) | Client BOSCH, Bangalore

Project Name : Powertrain Module for BS6 Engine Management System for Mahindra & Mahindra

- Developed AUTOSAR application software modules for BS6 projects for commercial and off-highway Vehicles.
- Executed configuration management(SUP.8) activities as per ASPICE 4.0 guidelines.
- Strong understanding of microcontroller architecture, communication and peripheral interfaces. (CAN, TIMERS, INTERRUPTS, GPIO, ADC, DIO, PWM).
- Developed and validated CAN frames (Tx/Rx) and UDS services (ISO-14229) including DID, RDBI, and WDBI.
- Conducted base function testing (BFT) using open-loop Labcar HIL for software validation.
- Developed application software modules using ASCET and manual coding approaches.
- Analyzed requirements, defects, and test reports in alignment with ASPICE 4.0 guidelines, utilizing the complete Software V-Model across all lifecycle stages(SWE.1–SWE.6).
- Executed multi-regional MISRA and AUTOSAR integration projects, overseeing requirements gathering, software integration, and HIL-based validation, in compliance with ASPICE SWE.5 and ISO 26262 functional safety standards.
- Validated software as per ASPICE SWE.4 to SWE.6 using Vector tools (CANalyzer, CANoe, PCAN) and flashing/debugging tools (ETAS INCA, UDE Debugger).

Embedded Hardware Engineer | Sukhila power Electronics (2019-2021) Hyderabad.

- Worked as Embedded hardware testing engineer which supply Integrated power supplies for signal and tele-communication dept of Indian railways.
- Conducted functional and hardware testing for power supply systems used in Indian railways.
- Performed component-level debugging, and ensured product reliability.
- Gained experience in quality assurance and test reporting for hardware deliverables.
- Utilized test equipment such as oscilloscopes, voltmeters, and power tools to ensure product reliability.

Skills:

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- **Languages** : C , Embedded C
 - **Protocols** : CAN, UDS (ISO-14229), SPI, I2C, UART, J1939
 - **Tools** : CANalyzer, CANoe, ETAS INCA, ASCET, UDE Debugger, ECUWorks, PCAN, RQONE, SDOM, IPE
 - **Standards** : AUTOSAR, ISO 26262, ASPICE
 - **Primary Skills**: Labcar HIL, IBM DOORS, CI/CD tools, SDLC(V-Model), Requirement Analysis, Test Case development

Education & Certification:

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- B.Tech - EEE, Ganapathy Engineering College, Warangal (2019) - CGPA: 6.0
 - Diploma - EEE, VMR Polytechnic (2016) - CGPA: 7.0
 - Certification: Embedded Systems - Erotech Solutions, Hyderabad.