K SHIVA KUMAR

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Location: Hyderabad, India

Professional Summary

Experienced AUTOSAR Software Engineer with 4 years of proven expertise in automotive software development. Skilled in AUTOSAR, Integration Testing, Unit Testing, and programming in C/C++. Strong understanding of automotive standards and embedded systems. Adept at delivering high-quality, test-driven code in safety-critical environments.

Technical Skills

- AUTOSAR Modules: Diagnostics (DEM, DCM), RTE, OS, ASW, BSW
- Programming Languages: Embedded C, C++, Python
- Testing: Integration Testing, Unit Testing
- Tools: DaVinci Developer/Configurator, EB Tresos, CANoe, INCA, Trace32, Parasoft, TPT, Matlab
- Standards: ISO 26262, ASPICE, MISRA-C
- Communication Protocols: CAN, UDS, OBD
- Management Tools: Windchill(Integrity), JIRA, Polarion

Professional Experience

Sr Software Engineer

Nov 2023 - July 2025

KPIT – Bangalore, India

- Developed and configured AUTOSAR diagnostic modules (DCM, DEM) and other BWS modules for OEM-specific applications.
- Developed and configured Ports, Interfaces other ASW configuration using DaVinci Tool.
- Performed integration testing and validation using Vector CANoe, Trace32 and INCA.
- Worked on the configuration of BSW modules and RTE generation using DaVinci Developer and EB Trsos.
- Created and executed unit test cases using Parasoft and TPT Tool.
- Ensured MISRA-C compliance and documentation for ASPICE audits.
- Updated design document(SDD).
- Worked on Debugging and Fixing Defects.
- Participated in integration of AUTOSAR stacks and resolved configuration and runtime issues.

Autosar Engineer

Sept 2019 - Nov 2023

LTTS - Mysore, India

- Configured DIDs using CVI tool.
- Worked on Integration testing on diagnostic related fuctionalities
- Conducted static analysis and code reviews to meet quality standards.

Key Projects

LE TwinDrive ECU – Dual-Mode Powertrain Control

KPIT

Domain: Automotive Embedded Systems

 $\textbf{Tools} \quad \textbf{Technologies:} \quad \text{Embedded C, AUTOSAR , CANoe, Vector DaVinci Developer, EB Tresos, Trace 32, and the control of the control$

Parasoft

Project Overview: Worked on the development of the LE TwinDrive ECU, an advanced control unit designed to manage dual-drive modes (e.g., electric + ICE) in hybrid vehicles. The ECU enables seamless switching between drive modes, torque blending, and real-time diagnostics, improving both performance and fuel efficiency.

Inverter ECU - Electric Drive Control System

LTTS

Domain: Automotive Embedded Systems

Project Overview: Developed a production-grade Inverter ECU responsible for managing the control and diagnostics of a high-voltage inverter in electric vehicles (EV/HEV). The inverter ECU interfaces with the motor controller, battery management system (BMS), and vehicle control unit (VCU) to ensure efficient and safe motor torque delivery, current regulation, and real-time monitoring of inverter status.

Education

Master of Technology in Power Systems Engineering

IIT Bhubaneswar - Bhubaneswar, India

2019 - 2021

Bachelor of Technology in Electrical and Electronics Engineering

JNTUH - Hyderabad, India

2014 - 2018