

Dhanabalaji M

Embedded Design & Test Engineer



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Skills

- CANoe
- CAPL
- CAN Protocol
- AUTOSAR
- Python
- C programming
- Trace 32
- UDS
- MATLAB, SIMULINK
- MS EXCEL

Education

MTech:2018-2020

Anna university, CEG campus
Chennai. (CGPA: 7.6)

B. E:2014-2018

Velalar college of Engineering and
Technology. (CGPA: 7.2)

Certified Course:

- Embedded Design and Development in C
- Python course from basic to advanced – Udemy.

Interests

- HIL Testing
- SIL Testing
- Python Automation

Key Expertise:

A result-oriented professional with **2.6 years** of experience in the Automotive Service Sector. Experienced in software requirement analysis, design & validation testing (**SWE.5 & SWE.6**).

- Experience in requirement management tools like PTC and Polarion.
- Involved in testing interfaces across application layer and basic software layer in AUTOSAR.
- Established automated testing systems for regular checks, improving efficiency, and reducing testing time using Python.
- Documented test procedures and results, ensuring comprehensive and organized record-keeping.
- Good Knowledge in SDLC and STLC & V- model, ASPICE.
- A great team player with excellent interpersonal communication skills.
- Good knowledge in CAN,LIN,I2C,Automotive Electronics.

Professional Experience:

Company: LTTS (L&T Technology Services, Mysore)

October 2021- present

Projects:

Project 1: Parking Assist Module for ADAS-enabled Car
Tools: Lauterbach Debugger, Python, Vector CANoe, vTESTstudio, vFlash

Role & Responsibilities: Software Test Engineer

- Analysed customer testing requirements to ensure alignment with project goals and industry standards.
- Developed Python Automation for test case automation in VTEST studio test scripts.
- Interacted with stakeholders and understood customer requirements.
- Created test environments and test cases for integration testing, ensuring thorough validation.
- Collaborated with cross-functional teams to troubleshoot and resolve testing issues.
- Developed Excel formulas for result updating, reducing team efforts by 20%.
- Analysed results and conducted defect reporting.
- Involved in defect verification and the defect lifecycle process.
- Performed DIVA Testing, Regression Testing, Robustness, and Smoke Test in Test bench.

Project 2: Motor & Inverter Temperature Monitor Control in EV

Tools: Vector Davinci Configurator Pro, UDE debugger

Role & Responsibilities: Software Developer

- Collaborated with design teams to understand product requirements and specifications and updated them on the Polarion tool for Functional safety.
- Detailed design using DrawIO tool.
- Configured EVADC and GPIO pins for Motor Temperature & Inverter Temperature for external Safe Mode feature using DaVinci Configurator.
- Manually coded algorithms in Embedded C.

DECLARATION:

- Dhanabalaji M do hereby confirm that the information given above is true to the best of my knowledge.