

GOSALA SARASWATHI

Automotive Domain Validation Engineer

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Objective

Achievement-driven professional targeting positions in Automotive Domain where my skills can be fully utilized to achieve objectives of the organization and lead to further growth in my professional skills and satisfaction

Summary and accomplishments

- ❖ A competent professional with nearly 3.7 years of rich experience
- ❖ Keen analyst with excellence in understanding and gathering requirements of clients/ Vendors/ Consultants & other multiple stakeholders.
- ❖ Exposure in requirements analysis, proof-of-concepts, Defect Raising, Test cases writing, testing and implementation and maintenance of Project.
- ❖ Hands on Experience in **Fault injection** and **Diagnostics Testing**.
- ❖ Experience of working for the Protocols CAN and UDS
- ❖ Good knowledge in different Inputs like Device operation ranges, Fault Reaction, Speed, Temp, Engine start stop, Gear recommendation, power mode, Operational modes, debugging etc.
- ❖ Proven ability to successfully work for multiple requirements, Test case development approaches and project management methodologies (agile, A spice/iterative, waterfall, V model.)
- ❖ Strong Knowledge on Vector tools such as **Canoe** and Canalyzer.
- ❖ Good Knowledge on **CAPL** Scripting.
- ❖ Good Knowledge on **HIL** Testing.
- ❖ Good Knowledge on **Advanced Driver Assistance System** Features.
- ❖ Hand on experience in Automotive Active safety ADAS features
- ❖ Hands on experience in Automotive Passive safety testing Airbag module as per ASPICE compliance
- ❖ Knowledge on Basic C language
- ❖ Hands on experience on Passive safety product Airbag by using HIL Environment.

Areas of Expertise

- HIL Testing
- CAN
- UDS
- Test cases writing
- Sprint reviews
- CAPL
- Project Management
- ADAS
- Quality Assurance
- Knowledge Sharing
- Team Building & Leadership

Technical Skills

Software Tools

Defect Tracking tool

Hardware Tools

Operating Systems

Programming Languages

Scripting Language

Configuration Management tool

Protocols

: Canoe, Canalyzer, Trace32, MEM tool, Polarion

: JIRA

: Can case XL, Miniwiggler, Lauter Bach

: Windows 32bit / 64 bit

: Basics of C

: Basics of VECTOR CAPL

: Plastic SCM

: CAN, UDS

Career Profiles

July 2022 to Till Now	Software Engineer APTIV Components India Private Limited. Bangalore, India
January 2020 to June 2022	Software Engineer Valeo India Private Limited. Chennai, India

Projects Profiles

Project 1: Diagnostic Fault Manager Testing Client: FORD- - From July 2022– till date

Roles and Responsibilities:

- 1) Requirement Analysis of the system requirements and providing the approvals if the requirement is testable.
- 2) Setting up the fault free environment after connecting the ECU and all the required I/O's to the simulated test bench environment using **VECTOR CANOE**
- 3) Setting fault through SPI BYPASS or System variable
- 4) Performing tests like Precondition checks, Basic, Control DTC check, snapshot data etc
- 5) Analyzing the Reports and Reporting the failures with the proper description and relevant logs attached using **JIRA**
- 6) Writing basic user defined **CAPL functions** to perform automation.
- 7) Performing manual tests using FORD customer specific **DET** tool
- 8) Generating the test reports in the specified format using **TAF**
- 9) Peer-review of the testcases and test reports using **Peer review database Application**.

Project 2 : Sensing and Diagnostic module (SDM) Testing Client: FORD - From May 2021– June 2022

Worked on Sensing and diagnostic module (SDM) Airbag for the inputs are Direct current sensor(DC), Remote satellite unit (RSU) sensor, Output modules Loops (Airbag), Fuel cut off Event, ENS (event notification signal), Deployment activities, Operational modes, Voltage profile tests Also tested CAN and UDS for the same project.

Roles and Responsibilities:

- 1) Collaborate with clients and internal teams to carry out requirements analysis
- 2) Developed Multiple test cases to cover requirement
- 3) Performed Bug reporting, also supported dev team for bug fixing
- 4) Documented Test cases and Performance of the test strategy document
- 5) Raising issue using defect tracking tool (JIRA) and checking status of issues and verifying the issues in software release.
- 6) Creating software test report and send it to customer
- 7) Capturing & analyzing the requirements for ECU system architecture.
- 8) Development of simulated test bench in the Canoe and Internal tools
- 9) Responsible for complete STLC – Requirement gathering, Test case Development, QA Testing, Documentation (Summary report, Review, Release Notes)

Project 3 : Driver Assistance Testing Client: NISSAN - From Jan 2020 – April 2021

Driver and passenger (User) can adjust seat height up and down, forward & rearward, recline with the help of switches and store favorite positions with the help of switches and recall. User can select driver side and passenger side mirrors also he can store favorite positions with the help of switches. Also tested CAN and UDS of same project

Roles and Responsibilities:

- 1) Collaborate with clients and internal teams to carry out requirements analysis
- 2) Developed Multiple test cases to cover requirement

- 3) Performed Bug reporting, also supported dev team for bug fixing
- 4) Documented Test cases and Performance of the test strategy document
- 5) Raising issue using defect tracking tool (JIRA) and checking status of issues and verifying the issues in software release.
- 6) Creating software test report and send it to customer
- 7) Capturing & analyzing the requirements for ECU system architecture.
- 8) Development of simulated test bench in the Canoe and Internal tools
- 9) Responsible for complete STLC – Requirement gathering, Test case Development, QA Testing, Documentation (Summary report, Review, Release Notes)

Education Details

- Bachelors of Technology in Electronics and Communications Engineering from J N T University Anantapur in 2018

Declaration

I hereby Declare that all the information mentioned above is true to the best of my knowledge and belief.

Place:

Date: