Madhavi Latha
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Carrier objective:

To be a part of a professionally managed company with scope for challenging career, opportunity for learning excellence and continuous improvement in verification and validation coupled with growth and personal life satisfaction.

Professional career summary:

Overall experience: Having 4+ years of experience in Automotive embedded software and HIL testing

- Experience in the Boot Loader testing.
- Experience in the UDS ISO 14229-1.
- Proficient Knowledge in Embedded Systems.
- Experience in CAN.
- Good experience in communication protocols like SPI, I2C.
- Experience in testing tools like Canalyzer and CAPL scripting.
- Knowledge in Software Development Life Cycle (SDLC).
- Good Knowledge on configuration management tools (SVN).
- Good Knowledge in test methodologies.

TECHNICAL SKILLS:

Communication Protocols	**:**	CAN, I2C, SPI
Testing tools	**:**	Canalyzer, Canoe 8.5.,DET Tool
Debugging tools	**:**	Trace32, Lauterbatch.
HIL Simulators	**:**	dSPACE
Design Tools	:	UML

Experience Summary:

- Presently I am working in HCL as Lead Engineer in Automotive Domain from Feb 2019 to till now

PROJECT PROFILE:

Project #1:

Validation of Subaru Engine software

Client **:** Subaru

Duration : 18 months

HIL setup **:** dspace control desk

Project description :

This project is to identify and test the key engine diagnostics in the system via dspace control desk . The end to end testing solution is provided by our team for this project which ensures all luberication system ,performance of the engine and health is tested meticulously and delivered the software to production.

Responsibilities:

➢Understanding of Client Software Requirement Specifications.

➢Harness preparation.

➢Automation of key features using python.

➢Manual Testing of features triggering events and diagnostics using control desk

➢Executing the test procedures on CANalyser,CANape and Dspace test benches.

➢Evaluating the test results and preparing the test report

➢Interaction with client and other internal groups such as project management and hardware.

P**roject #2:**

Validation of KOEL Gensets HMI

Client : KOEL

Duration : 18 months

HIL setup : KAL 19 inch HMI and CAN network

Project description :

To monitor each diagnostics of the Genset and to validate its performance. To check each functionalities of the HMI and ensure the feature perfection against requirements.

Responsibilities :

➢Understanding of Client Software Requirement Specifications.

➢Harness preparation.

➢Manual Testing of features triggering events and diagnostics using touch KAL HMI

➢Executing the test procedures on CANalyser

➢Evaluating the test results and preparing the test report

➢Interaction with client and other internal groups such as project management and hardware.

Project 3:

Title: Boot loader to Re-flash ECU Using UDS Testing

Customer **:** Subaru
Features tested **:** Boot Loader
Role **:** Team member
Duration : 6 Months

Project Description:

Boot loader module is a firmware(software embedded in a hardware device)located into the non-volatile memory of an ECU that allows in-circuit reprogramming of the device(flashing application software) using its standard communication ports via CAN protocol.

Roles & Responsibilities:

- ✓ Test the application code for CAN Bus Boot loader and updating the boot loader using UDS commands.
- ✓ Simulation and testing by using CANoe tool.
- ✓ Unit testing using Lauterbach Trace 32 debugger and bug fixing.

Project # 4:

Title: Validation of Nissan Daughter Card BT

Customer **:** NISSAN
Features tested **:** BlueTooth
Role **:** Team member

Duration : 6 Months

Description:

This project is to validate the Nissan radio especially Bluetooth functionality. In this mentioned project, the features are validated to check whether it BT is working properly in all the condition and check whether SW meets the SRD or Not.

Responsibilities:

- Understanding of Client Software Requirement Specifications.
- Testing BT while paring many phones of different make.
- Testing of Hands free mode
- Testing of VR compatibility with IOS and Android supported phones
- Validating the Application Software.
- Peer review of the work done by other team members.
- Creation of Test Trouble Report's for observed failures.
- Logging defects in RTC

EDUCATIONAL QUALIFICATIONS:

- Bachelor of Electronics and Communication Engineering from Sri Venkateswara Institute of Science and Technology Chennai aggregate with 68%.

PERSONAL DETAILS:

Name	:	Madhavi Latha
Date of Birth	:	21-09-1987
Marital Status	:	single.
Nationality	:	Indian.
Languages Known	:	English, Tamil,Telugu.

DECLARATION:

I hereby certify that all the information provided above is true to the best of my Knowledge.

Place: (**Madhavi Latha D.**)

DATE: