Kalpana Madala

Email : [kalpana.embedded@gmail.com](mailto:hemalathakaranam11@gmail.com)

Phone No : 6303496746

# Career Objective:

Hands on experience in performing bench testing and validation in the automotive field. Willing to work in a responsible position as an Automotive Validation and Verification Engineer in a GEP Worldwide.

# Career Experience:

* Having 3.5 years of experience in Automotive industry
* Hands on experience in **CAN, CANoe ,dspace**
* Hands on experience in Test Case Design.
* Having good experience on creating Test cases for both +ve & –ve scenario’s.
* Hands on experience in creating **CAN Database** in **CANoe.**
* Hands on experience on **Diagnostics(UDS)**.
* Experience in Automating Test cases with **UDS**
* Good experience on Bug tracking tool **Jira , IMS .**
* Hands on experience on validating **DTC’S using dspace**
* Ability to prioritize tasks, handles multiple tasks, and meets deadlines.
* Perform white box testing.
* Interested to learn new Technologies.

# Technical Skills:

* **Protocols**: CAN,UDS ,SPI,I2C,KWP,CANTP.
* **Testing Tools**: CANoe, CDA ,INCA ,Matlab .
* **Application**: MS OFFICE (Word, Excel, PowerPoint),Python ,c, Embeddedc, Microcontroller .

# Educational Qualifications:

* B.sc. Electronics with an aggregate of 76% from SV Degree and PG college from SKU ananthapur 2017

MCA with an aggregate of 76% from Sri Balaji PG college from JNTU ananthapur 2021

# Professional Experience:

* Working as test engineer at from July2022to till Date.

# Project 1: DPRS ( Diagnostis performance requriment system).

**Tools:**Vector CANoe,macro tools .

**Defect tracking tools:**Jira,pids **Role:** Tester

**Description:**

DPRS is meant for Diagnostic performance requirement system where we are validating the SW for tools which will be used in real vehicles and which are used for diagnostics.

# Roles & Responsibilities:

* Collect the DDT file , cal file and Software.EFDfile
* Convert new format of ddt file to old format ddt
* Using marco tools generate three files ( Read DTC, Generate Text and start up data)
* Add these 3 files into canoe configuration
* Flash Software.EFDfile in CDA tool
* Automation testing in canoe
* Execution of test cases
* Recive HTML reports and can logs
* Populating HTML reports to Excel sheets
* Route cause analysis of defects
* Preparation of the reports for the executed tests
* Creating issues in jira and pits ( Powertrain tracking system)

# Project 2: Diagnostic Validation for BEV .

**Tools:**Dspace,Inca,cda , Matlab.

**Role:** tester

# Description:

The Brake Pad Wear Indicator Function shall be capable of monitoring Different levels of pad thickness on each wheel and warn the driver when pad is worn out beyond certain threshold. The BPWI function shall run periodically once per hour. The Brake pad thickness information for the Front axle and the Rear axle Shall be processed and sent over the bus. The signal Break Pad Wear Indication Front Axle for the front axle and Break Pad Wear Indication Rear Axle for the rear axle shall be used for Updating the pad thickness information.

The signal Description defined and as follows.

1. - No pad wear/Default.
2. - One or both Brake pads worn down to7mm.
3. - One or both Brake pads worn down to 2mm.
4. - Sensor component failure.
5. - Electrical failure.

# Roles & Responsibilities:

* Requirement Analysis to verify the **CFTS and DTC matrix requriments**
* Prepare the test cases based on the requirement
* To simulate and validate all the Diagnostic trouble codes(DTC”S) against the DTC matrix requirements( enable conditions ,mature conditions ,mature threshold , Recovery/ limpin Actions .
* Als0 finding mismatch between CFTS Diagnostic requirements and DTC Matrix requirements .
* Any Issues identified in documents or software logic or Calibrations will be reported in ALM .

# Project 2: FUEL CELL .

**Tools:**Dspace,Inca,cda, Matlab .

**Role:** tester

# Description:

To Flash the SW in Inca and Validate all the diagnostic trouble codes

# Roles & Responsibilities:

* Requirement Analysis to verify the **CFTS and DTC matrix requriments**
* Prepare the test cases based on the requirement
* To simulate and validate all the Diagnostic trouble codes(DTC”S) against the DTC matrix requirements( enable conditions ,mature conditions ,mature threshold , Recovery/ limpin Actions .
* Als0 finding mismatch between CFTS Diagnostic requirements and DTC Matrix requirements .
* Any Issues identified in documents or software logic or Calibrations will be reported in ALM .

# Personal Information:

* **Nationality :** Indian
* **Date of Birth :** 13-DEC-1996
* **Gender :** Female
* **Languages known :** Telugu,English,Hindi

**Declaration:**

I hereby declare that the above information given by me is true to the best of my knowledge and I hold complete responsibility for the correctness of above mentioned information.

**KalpanaMadala**