**ARAVIND POTHULA**

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**CAREER OBJECTIVE:**

Detail-oriented electrical engineer with 2.8 years of experience in managing different engineering operations, looking for an entry-level position at a reputable company. Capable of handling multiple projects at a time with minimum supervision. Motivated to offer the highest quality of services with a complete focus on safety, environmental, and health issues.

**PROFESSIONAL EXPERIENCE:**

Worked as a Software Engineer with **Navtech India Ltd**, **Hyderabad** from April 2019 to Dec 2021

**PROFILE SUMMARY:**

* Total 2.8 years of experience in the **Automotive Industry.**
* Experience in writing the **Test case design, Validation,** and Defect analysis of the Front Camera Module
* Good knowledge in Vector CAN tool like **Vector CANoe 11.0, CANDB++ Editor, CANape, EYEQclient, DSpace,** and **DPS.**
* Worked on **ADAS**
* Knowing **CAPL**

## Hands-on experience in standard protocols of **LIN and CAN**.

* Worked on **LIN Conformance testing**.
* Hands-on experience on **PTC (Integrity Client) and Doors**.
* Good exposure to standard Protocols of **CAN and ISO14229-1**.

## Experience in System Testing.

## Experience in working on the Dspace Automation Desk by generating scripts from the MITE tool.

* Involved in Various phases of Engineering via Analyzing Software Requirements, Test Specifications, Testing, Test Cases Development, Defect Raising, and Product Maintenance.
* Experience in performing Technical Reviews for Test cases and Test Reports.
* Strong exposure to Configuration management tools such as SVN, PTC, and Doors.
* Involved in Software Validation Releasing Activities.
* Good comprehension of Software Development Methodologies and Life Cycle Phases, well acquainted with **Automotive Spice (SYS 1,2,3,4,5) & GPEP** processes
* Training new engineers and sharing knowledge with the other team members on different features.
* Built good communication skills with the customer as per daily basis calls and discussed requirements with the client for system-level understanding and covering all testable scenarios.
* A systematic, organized, and dedicated team player with an analytical bent of mind determined to be a part of a growth-oriented organization.

**TECHNICAL SKILLS:**

Language: C, Embedded C, C++

Standards/Protocols: LIN, CAN, UDS14229-1, UART, I2C, Ethernet

CAN Tools CAN Tools: Canalyzer, CAN db++Editor, Canoe, and CANape

## CAN Hardware: CAN Card, CAN Case, VN1630/5610

## DSpace Tools: Control desk, Automation desk, Motion desk, Model desk

## Configuration Management: MKS/PTC Integrity Client, SVN

## Operating System: Win W7/W8/W10

## Microsoft Tools: MS Project 2013, MS Word, MS Excel, MS PowerPoint, Outlook

## Hardware Tools: Relay box, Load box, LCD/LED Panels, Camera modules, Harness, Simulators

## Others: IPG Carmaker, EyeQClient, DPS

**ACADEMIC QUALIFICATION:**

* Master’s in Electrical Engineering from the University of North Texas is expected to be completed in the year 2023.
* B.E in Electronics and Communication Engineering Osmania University with an Aggregate of 68.5% in 2018.
* Intermediate through Board of Intermediate Education with an Aggregate of 89.7% in 2014
* 10th Standard through state board with an Aggregate of 9.0 CGPA in 2012

**Project 1: MPA Micro Plus2.0**

**Organization:** Navtech India Ltd.

**Client:** HANON Systems

**Duration:** December ‘20 – December ‘21

**Project Summary:**

* MPA is a Multi-Purpose Actuator and a part of an automotive refrigerant valve. Its job is to set the valve opening/closing position according to the given commands.
* We use different tools like LIN, MITE, and the Automation desk for test authoring and automation.
* System testing with Automotive Spice standards and GPEP process.

**My responsibilities include:**

# Requirement Analysis and reviewing the system requirements with the system engineer and understanding the system.

# Test case Design and test case authoring using internal tools like MITE.

# Setting up HIL Benches.

# Generating automated scripts and execution over Dspace Automation Desk.

# Defect creation and analysis with software developers.

# Test Session creation and test report generation for each Software release.

# Adept to the Test Management process and standards like GPEP and Automotive Spice (SYS 1, 2, 3, 4, 5).

**Environment:**

LIN, LIN Conformance testing, UDS 14229, Automation desk, MITE, PTC (Windchill RV&S Client).

**Project 2: Front Camera Module**

**Organization:** Navtech India Ltd.

**Client:** BMW

**Duration:** July ‘20 – December ‘20

**Project Summary:**

* BMW ADCAM is a front camera system consisting of a single ECU that has various functionalities like Cross-Traffic Alert, Left Turn Assist, Pedestrian Detection, and I brake which assist the driver to avoid collisions. The camera will detect the oncoming traffic with the help of sensors like Short Range radar, Mid-Range Radar, and Long-Range Radar.
* The project also includes the Validation of the new requirements which are initiated by the customer and developing the test execution plan accordingly
* We use Dspace (Closed Loop Hill) and Open-loop Bench Setup for the Execution using different tools like CANoe and Automation Desk

**My responsibilities include:**

* Analyzing the new requirements from the systems requirement document
* Writing new Test cases upon requirement changes and developing the automation scripts.
* Analyzing the reports and raising the defects
* Review of test cases and the requirements
* Generating new Test Procedures as per requirements and change requests.
* And involved in the meetings with the customer.
* Working with Open loop and Closed Loop Setups like HIL and Standalone bench setups

**Environment:**

CAN, UDS 14229, ISO-15765, Canoe, CANape, CAPL Scripting, Automation desk, MITE, PTC, Integrity, and Dspace Tools

**Project 3: FrCAMERA (Front Camera Module) Testing**

**Organization:** Navtech India Ltd

**Client:** General Motors.

**Duration:** May ‘19 – June ‘20

**Project Summary:**

* The project is focused on camera-based ADAS applications of the car such as **ASDR** (Active Safety Data Recording), **LDW** (Lane Departure Warning), **AEB** (Automatic Emergency Braking), **FCA** (Front Collision Alert), etc.
* ASDR collects the data and images before the collision and saves them to the NVM. It helps the OEM to know how the collision occurred.

**My responsibilities include:**

* ECU validation and verification for Front Camera Module
* ECU - Diagnostics testing, Diagnostics verification report (DVR), CAN signal to test (CAN signal functionality testing), CAN timing-related test cases, DTC-related test cases, System state machine testing

## Requirement analysis, test cases authoring

* Set up a testing environment, creating a configuration, scripting for automation, Execution of Test Cases, and defect raising and tracking.
* Execution of test cases manually and automation (System Testing)
* Test bench setup, Smoke testing, Regression testing
* Participated in a review meeting for requirement/test cases
* Communication with the developer for any defect
* Direct interaction with the client
* Preparing daily/weekly status reports, updating lessons learned document

**Environment:**

CAN, UDS 14229, ISO-15765, Canoe, CANape, CAPL Scripting, Automation desk, MITE, PTC, Integrity, DPS, and IPG Car Maker

**DECLARATION:**

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

Place: Denton (ARAVIND POTHULA)