

DAYAKAR REDDY

VALIDATION ENGINEER

E-mail: dayakarreddy897@gmail.com

Mobile: +91 8978653597

Tools

- Canoe
- CANalyzer
- Diagnostics
- CAPL Scripting

Flashing Tools

- USB Flashing
- UDS Flashing
- ABD Flashing
- Renesas Debugger

Communication Protocols

- CAN
- CAN TP
- UDS PROTOCOL

Skills

- Requirement Analysis
- Test case
- Verification and Validation Model (SDLC)
- Log analysis
- Test report preparation
- Rational Doors
- ASPICE

Education

B.Tech (CSE)
from JNTU –
ANANTHAPUR
(2017-2021)

Objective:

A motivated and adaptable professional seeking a challenging role where I can utilize my skills and experience to contribute to the growth and success of the organization. Dedicated to continuous learning and development, I am eager to take on new challenges and make a positive impact in a dynamic work Environment.

Professional Experience:

Company: JASMIN INFOTECH PRIVATE LIMITED.

Location: Chennai

Role: System validation engineer

Aug 2021- present

Accomplished validation engineer with **3.6 years** of experience in **ADAS** and **INFOTAINMENT cluster** ECUs And Across Automotive Validation. Proficient in generating of test cases by utilizing Business and system requirement specifications and validating them. Skilled in utilizing various automotive testing tools and methodologies to ensure product quality and adherence to safety standards. Seeking challenging roles to contribute to cutting-edge automotive technologies.

Worked on Different ECUs like **INFOTAINMENT** testing, **ADAS** testing for system level and Bench level.

Experience on **Canoe tool** features like Trace window, Graphical window, panel window, IG block and exposers on CANalyzer. Effectively applied appropriate **testing methodologies (Smoke, Functional, Regression, Sanity, Exploratory)** based on project requirements and testing stages.

Proficient in the **Unified Diagnostic Service (UDS) protocol**, utilizing various **Service IDs (e.g., 10, 11, 22, 2E, 3E, 27, 31, 19, 28, 85, 14)** to effectively communicate with **Electronic Control Units (ECUs)** for diagnostic purposes.

Possess a working knowledge of communication protocols such as **CAN** (Controller Area Network) and **CAN TP** (Controller Area Network Transport Protocol).

Exposure on **LIN, CAN FD, ETHERNET PROTOCOLS.**

Good Knowledge on **CAPL** Scripting.
HIL BENCH SETUP(NATIONAL INSTRUMENTS).

PROJECT EXPERIENCE:

Project-1: ADAS

Client name: Mg Adaptive Cruise Control System

Dec 2021 – Nov 2022

Company: JASMIN INFOTECH PRIVATE LIMITED.

- Having earlier experience testing automotive driver assistance (ADAS) system like Main View Camera (MVC), Rear View Camera (RVC) and Ultrasonic sensors (USS) modules.
- Experience with RVC testing such as BOWL, PANAROMA and REAR Views.
- Tested RVC and MVC features using audio video bridge (AVB) panel as a screen in CANOE tool.
- Knowledge of sending signals to the ADAS ECU from ultrasonic sensors at detection range.
- Analysing and reviewing the system requirements given by the recruitment team
- Worked on gateway module for changing message format from CAN format to Ethernet format and sends to ADAS ECU.
- Having Exposure about creating configuration database panels in canoe and canalyser tool flashing ADAS ECU through tool flashing like ECU tool.
- Having knowledge in fault management to read DTC Information, READ WRITE DID Session control routine, clear DTC.
- Software Development Life Cycle (SDLC) and Software Testing Life Cycle (STLC) methodologies including Test Cases, Test Plan, Test Cases Execution, Bug Tracking, Test reports and documentation.
- Attending the stand-up calls with technical lead reporting day to daywork.

Project-2: Infotainment

Client name: MG Rx5

Dec 2022 - Present

Company: JASMIN INFOTECH PRIVATE LIMITED.

- Validate and review all the requirements based on those we need to prepare Test Cases.
- Worked on INFOTAINMENT features like Testing on Bluetooth, USB, Navigation, FM, Android Auto, Car Play, Wallet Parking and Voice recognition.
- Getting Involved in different Testing activities like SMOKE TESTING, REGREESDON TESTING, FUNCTIONAL TESTING, ADHOC TESTING.
- Familiar with V MODEL methodologies and has been involve in Validation phase on Software Development Life Cycle (SDLC).
- Testing Navigational features including One shot Destination, Points of Interest and Unpaved roads and Paved roads.
- Validation on many Bluetooth functionalities including phone media and various connectivity modes.
- Bluetooth profiles like hands free AVRCP, PBPAP, A2DP, GAP, SAP and MAP have been tested.
- Having good experience on programming language like CAPL Scripting for sending automated messages to the CAN BUS.
- Having project experience with CANOE tool with Trace window, Graphic window, Wright window, IG block and G block.
- Attending the standup calls with technical lead and reporting day to daywork.

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