P HEMANTH KUMAR

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Professional Summary:

- Having around **6** Years of Experience in Embedded Automotive Domain as a **Validation Engineer.**
- Having Good Work experience in Verification and Validation and Good Exposure to **Software Testing Life Cycle (V model/ Agile).**
- Proficient in **HIL Testing** (Hardware in Loop) for Engine control module by using dSpace Simulator.
- Proficient in **Infotainment Testing**, Including bench level testing, vehicle Level testing and Featureinteraction testing.
- Certified as **ISTQB Foundation** Level Tester**.**
- Hands on experience with automotive testing tools like **CANalyzer** ,**CANoe, CANape and Arduino**.
- Good working experience with vehicle communication protocols like **CAN** and **UDS**.
- Having strong command on validation of Diagnostics Protocols.
- Performed **Vehicle Testing** for various features
- Good Expertise in **Design, Development and Execution** of Test cases for Automotive Applications.
- Perfect execution of work plan schedule to complete the deliveries on-time.
- Testing of different modules like connectivity (Bluetooth), **Android auto**, **Car play, UDS, Navigation, Tuner, WIFI, Human Machine interface testing** etc.
- Verifying Bluetooth Inter-operability between the mobile phones and Infotainment systems. Testing on Bluetooth Profiles like **HFP, A2DP, AVRCP** and **PBAP** etc.
- Having Experience on **JIRA TOOL**

Professional Experience (6 Years-Automotive):

- Worked as a Senior Test Engineer at **Visteon Technologies** from Aug 2022 to Feb 2024
- Worked as a Embedded Test Engineer at **CYIENT PVT Ltd** from April 2021 to July 2022
  Worked as Test Engineer at **Delphi Technologies** (**Glowbrite Systems)** from April 2018 to April 2021

Educational Qualification:

University of SVU-2015:
MBA (Master of Business Administration) in Human Resource & Marketing with an aggregate of 70%.

University of JNTU-2012:
B.Tech in Electrical and Electronics Engineering with an aggregate of 60%.

Professional Skills:

Tools: DSpace(Control desk), CANoe, CANape, Arduino, putty, winscp, Console IO multicore, Provetech (Automation tool),EXAM.

Programming Languages: Python, CAPL ,VBScript

Hardware: IVI Module, CANcasexl, Test Box, Harness etc

Protocols: CAN, UDS, LIN

PROJECT: 1

- Title : **TATA - In vehicle Infotainment Validation.**
- Tools : CANoe, Provetech.
- Protocols : CAN, UDS.

Description:
This project involves creation of test modules in RTC and Validation of Bluetooth, USB and Tuner.

Roles & Responsibilities:

- Support Vehicle Testing Features of Bluetooth, Navigation and Tuner.
- Review and analyze the system requirements.
- Proactively Identified and addressed impediments, stories, defects and tasks to optimize product performance.
- Responsible for validation of Different Modules like Bluetooth, USB and Tuner.
- Performed Validation testing on both bench setups and In-vehicle environment.

PROJECT: 2

- Title : **Harley Davidson - In vehicle Infotainment Validation.**
- Tools : CANoe, Provetech.
- Protocols : CAN, UDS.

Description:
This project involves creation of test modules in RTC and Validation of Bluetooth, Navigation and Tuner

Roles & Responsibilities:

- Support Vehicle Testing Features of Bluetooth, Navigation and tuner.
- Review and analyze the system requirements.
- Design the test cases as per the system requirements.
- Responsible for validation of Different Modules like Bluetooth, USB, Navigation and Tuner.
- Performing the rapid Validation tests for all those conditions and Invalid Cases.
- Tested Bluetooth profiles such as Hands-free, AVRCP, PBAP, A2DP, GAP, SAP, MAP, BIP.
- Bluetooth testing with different operating phones including Android, windows, iOS.
- Tested Media devices and their features like USB, IPOD.
- Tested Tuner Feature like Tuner-DAB, Tuner-HD.
- Written and Executing the Automation Test cases in Provetech tool.

PROJECT: 3

- Title   : **Nissan, Mitsubishi - In vehicle Infotainment Validation.**
- Tools   : CANoe, Putty, Winscp, Bits Platform, Eclipse.
- Protocols   : CAN, UDS.

Description:

This project involves creation of test modules for Android devices.
This project involves validation of BT, USB, AAP, CP classic devices and HMI in Radio.

Roles & Responsibilities:

- Review and analyze the system requirements.
- Analyzing the features with respect to Client Requirements.
- Design the test cases as per the system requirements.
- Preparing the Test report in EXCEL for each Testing of Software.
- Validating different modules like USB, Bluetooth, AAP, BT, CP,RVC.
- Performing the rapid Validation tests for all those conditions and Invalid Cases.
- Tested Bluetooth profiles such as Hands-free, AVRCP, PBAP, A2DP, GAP, SAP, MAP, BIP.
- Bluetooth testing with different operating phones including Android, windows, iOS.
- Tested Media devices and their features like USB, IPOD, AUX
- Written and Executing the Automation Test cases in Eclipse Tool.

PROJECT: 4   (2018 - 2021)

Title   : **Harley Davidson-Validation of ECU(Engine Control Unit) Using Dspace.**

Tools   : dSpace(Control desk), INCA, V-Flash, CANape, EXAM.

Description:

This project is developed for **Harley Davidson Motor Company** to control the Spark timing, Cruise control, Various Interlocking features. This is standalone ECU.

Roles & Responsibilities:

- Responsible for validation of Sensor variable sub systems.
- Understanding the system and software requirements.
- Test case creation in Door's and Execution, Simplification of existing testcases and Failure analysis along with test script maintenance.
- Work with BOB(Break out Box) and FIU(Fault Insertion Unit) for DTC Creation.
- Developing testcase Automation scripts using EXAM tool.
- Debugging customer reported issues, preparing problem report and follow-up with development team members to plan test strategies and software fix validation strategies.

Declaration

I hereby declare that the above furnished information is true to the best of my knowledge and belief.

Date   :

Place :   (**HEMANTH KUMAR P)**