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Senior Software Engineer
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Resume

Summary:

1. An Automotive Infotainment Engineer with over 7.10 years of experience in testing IVI (In-Vehicle Infotainment), TCU (Telematics Control Unit) systems and preparing requirement specifications.
2. Possess a clear understanding of SDLC, V Model, and Agile Methodology including designing, developing, and executing test plans, test cases and test processes.
3. Well versed with test case creation as well as testing of modules like Multimedia (USB, MTP, AUX, iAP2), Bluetooth, Android Auto, Apple CarPlay, Tuner, HDMI, Voice Recognition, Telematics (FOTA, Emergency Calls), RSE (Rear Seat Entertainment), Diagnostics (UDS), GLT (Global Local Time) and DFS (Distributed file system).
4. Hands on in usage of automotive tools like NEO VI, CANoe and PCAN.
5. Worked on Automation Testing using KITE (KPIT Integrated Test Environment) tool and TAF (Test Automation Framework).
6. Possess knowledge on SDV (Software-Defined Vehicle) Zonal Controller based architecture.
7. Experienced in Smoke Testing, Sanity Testing, System Testing, Functional and Non-Functional Testing, Regression Testing, BVT Testing, Interoperability Testing On-Bench, and In-Vehicle.
8. Analysing requirements to its depth to report maximum severe bugs and follow up regarding the same taking them to fix and closure.
9. As a Requirement Engineer, analysed OEM specifications to consolidate, structure and formalize requirements specific to the supplier.
10. Determined feasibility, impacted modules and risks for newly published CRs and Bulletins.

Experience:

Duration	Organization	Role
July 2016-March 2022	KPIT Technologies Ltd., Pune	Senior Test Engineer
April 2022-Present	Wipro Ltd, Pune	Senior Software Engineer

• Project - 1

Organization KPIT Technologies Ltd.			
Client	DENSO TEN Limited, OEM: General Motors	Project	FTEN MY19
Period	November 2016 to June 2018	Duration	1 Year 8 Months
Role	Test Engineer		
Environment	Testing of Linux based Automotive Infotainment System		
Project Description	MY19 Info 3.0 Low (I3L) project was based on KIVI (KPIT In-Vehicle Infotainment Platform)		
Contribution	1. Involved in analysis of customer requirements, preparing test scenarios, and writing test cases. 2. Execution of Smoke tests, Functional tests, Performance tests, BVT tests, HMI tests for modules like Media (USB, MTP, AUX, iPod), Audio Manager, Android Auto, Apple Carplay, Baidu CarLife, and Bluetooth.		

3. In-Vehicle Testing to validate requirements of TUNER.
4. Test Data Creation using Easytag, GParted.
5. Involved in ad-hoc testing to discover major defects, at the same time minimizing defect rejection ratio.
6. Develop and maintain test documentation, including test reports and bug logs.

• Project - 2

Organization	KPIT Technologies Ltd.		
Client	Panasonic Automotive Systems Europe	Project	DAIMLER RSE System Testing Project
Period	July 2018 to July 2020	Duration	2 Years
Role	Senior Test Engineer, Test Engineer		
Environment	Testing of Android Based Rear Seat Entertainment		
Project Description	An IVI system designed for Rear Seat passengers where KPIT was responsible for System Testing of Platform requirements.		
Contribution	1. Platform Testing of RSE (Rear Seat Entertainment) to validate requirements related to Audio, Video and Bluetooth and identification of tools and methods to test the same. 2. Use of following tools/Software to validate requirements: a. Frontline Protocol Analyzer: To validate transmission/reception of packets between two Bluetooth devices, and support of various Bluetooth profiles. b. Audacity: A freeware Audio Analyzer Software to create audio test signals, plot frequency vs amplitude characteristics by capturing audio output from speakers, observe glitches in time domain. 3. Execution of Smoke, Functional, Stability and SIT (System Integration) tests on weekly builds along with Test Report Creation and bug reporting. 4. Use of CANoe to test Diagnostics. 5. Automation Testing by developing test scripts using KITE and execution using TAF (KPIT in-house tools). 6. Mentoring and providing technical support to teammates. Review of Weekly Reports.		

• Project-3

Organization	KPIT Technologies Ltd.		
Client	VinFast	Project	VinFast eCockpit Validation
Period	October 2020 to March 2022	Duration	1 Year 6 Months
Role	Test Lead, Senior Test Engineer		
Environment	Testing of eCockpit System		
Project Description	VinFast has started developing SUVs and KPIT is responsible for its eCockpit's validation		

Contribution	1. Involved in Requirements Analysis, followed by Test Case Creation and Testing for different Programs of VinFast for modules FOTA (Firmware Update over the Air), e-Call (Emergency Calls), USB Audio, USB Video, Bluetooth, Voice Recognition, Radio, Android Auto with least rework percentage in the team. 2. Media Test Data Creation using Third party convertors and command line. 3. Worked closely with customer to set up the test environment and execution for Telematics Flashing, Telematics Provisioning, FOTA and emergency call. 4. Creation and execution of Automation Test Scripts using KITE (KPIT Integrated Test Environment) 5. As a Module Lead, responsible for creating Sprint backlog, Requirement Discussion with customer, Review of Test Cases, Defects, Technical support to Test Engineers. 6. Have conducted trainings for freshers, groomed them to project ready. 7. Planned and Evaluated Assessments as a part of trainings. 8. One of the few team members to Work from Office in the pandemic situation to execute system test cycles and meet stringent deadlines.
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• **Project-4**

Organization	Wipro Ltd.		
Client	Magna Steyr	Project	POC based on SDV architecture
Period	April 2022 to August 2023	Duration	1 Year 5 Months
Role	Senior Test Engineer		
Environment	SDV (Software-Defined Vehicle)		
Project Description	Wipro was responsible for delivering POC based on SDV Zonal Controller architecture		
Contribution	1. Worked closely with the development team to understand the SDV architecture and associated modules like Diagnostics, DFS (Distributed File System), GLT (Global Local Time), Persistent Storage etc. 2. Achieved considerable test cases coverage even in the absence of requirement documents. 3. Creation of Test Plan and test reports in IBM JAZZ. 4. Supported development team in testing activities to discover bugs in the early phase of the POC.		

• **Project-5**

Organization	Wipro Ltd.		
Client	Stellantis	Project	System Requirements for Cockpit
Period	September 2023 to Present	Duration	10 Months
Role	Requirements Engineer		
Environment	DNG (Doors-Next GEN)		
Project Description	Stellantis Requirements Team is responsible to prepare requirement specifications for supplier PANASONIC, analyse the new Bulletins and CRs to determine the impacted modules		
Contribution	1. Involved in analysis of OEM (Stellantis') specifications and Topology diagrams followed by preparation of requirement specifications for supplier-PANASONIC for modules like Audio, Ethernet and FOTA. 2. Fulfilled Ethernet Conformity Matrix by segregating & restructuring requirements for Panasonic and Marvell. 3. Acting as a mediator between the supplier and Stellantis to understand the gaps and queries in the specifications. 4. Getting the queries resolved for better alignment on the responsibilities of both the parties. 5. Updating the specifications from time to time based on the discussions and new CRs.		

6. Lead the impact analysis of newly published CRs and Bulletins to determine impact on existing design, risk, and feasibility.

Hands-on Skills:

Skill	Tools/Technologies
Automotive Infotainment Testing	NEO VI, CANoe, PCAN: CAN related tests. Redmine, JIRA, TestLink, IBM Jazz: Test Management and Bug reporting
Professional Skills	Communication, Leadership

Education Summary:

Degree	University	Score
B.E. (Electronics and Tele-Communication)	Shivaji University, 2016	72%
12 th	Maharashtra State Board, 2012	86%
10 th	ICSE Board, 2010	72%