AKSHAY PUNDLIK WAGH

SENIOR SOFTWARE ENGINEER

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OBJECTIVE

Highly skilled Testing Engineer with 6.5 years of experience in automotive testing, specializing in ADAS functionalities and communication protocols. Seeking a challenging role to leverage my expertise in driving innovation, quality assurance, and achieving organizational goals through continuous learning and collaboration.

EDUCATION

2016

B.E. In **Electronics & Telecommunication** from **Sant Gadge Baba Amravati University (SGBAU), Amravati, Maharashtra**

CORE COMPETENCIES

- Functional Safety Standards
- Test Automation Frameworks
- Risk Analysis
- Hazard Analysis and Risk Management
- Software Development Life Cycle
- Test Cases / Test Plans
- Defect Management
- Agile/Scrum Methodologies
- Requirement Gathering and Analysis
- Manual/Automation Testing
- Regression/Smoke Testing
- Process improvement
- Black/White Box Testing
- Defect Reporting/ Tracking

SOFT SKILLS

- Collaborator
- Communicator
- Critical Thinker
- Problem Solver
- Time Management

CERTIFICATIONS

- MS - CIT
- Functional Safety (ISO26262)
- SAFe Agilist Certification

PROFILE SUMMARY

- 6.5 years of experience in the Automotive Domain, specializing in **Manual** and **Automation** Testing, System Integration, and the **SDLC**. Proven expertise in **ADAS** functionalities for Battery Electric Vehicles (BEV) and adherence to Functional Safety Standards. Adept at using tools such as **Canoe**, **CANalyzer**, and **DSpace** for effective testing and integration.
- Proficient in Requirement Analysis, Test case preparation, Defect tracking, and Reporting**.**
- Recognized for expertise in **Black Box Testing, White Box Testing and Test Automation.**
- Skilled in serial communication protocols such as **CAN, LIN, UDS,** and **Flexray**.
- Specialized skills in **Automotive Software Testing,** particularly in **ADAS** functionalities for **Battery Electric Vehicles (BEV),** adhering to ISO26262 Functional Safety Standards.
- Proficient with various communication protocols including CAN, LIN, UDS, and Flexray, utilizing tools such as CAN Flash, Canoe, CanAnalyzer, and DSpace Tools (Control Desk, Automation Desk).
- Proficient in **test case scripting, test design, test case implementation, defect tracking and issue reporting.**
- Liable for **executing scripts using automation tools** and **performing manual testing after new releases,** ensuring comprehensive testing coverage and high-quality deliverables.
- Experience working with **A-spice** projects. Majorly with Software and System Processes System Requirements Analysis (SYS.2), System Integration and Testing (SYS.4), System Qualification Testing (SYS.5), Software Requirements Analysis (SWE.1), Software Unit Verification (SWE.4), Software Integration and Integration Testing (SWE.5).

TECHNICAL SKILLS

- Suresoft Tool (Test Automation Tool Controller Tester)
- CAN Flash
- Canoe
- CanAnalyzer
- DSpace Tools (Control Desk, Automation Desk)
- EXAM Automation Tool (Micronova)

- Doors
- JIRA
- GIT
- GitHub
- Miro board

- Renesas Flashing tool – Debugger
- Lauterbach TRACE32
- WinIDEA - iC5700 BlueBox
- MS – Excel, MS – Word
- IBM DOORS Requirement Management Tool
- PTC Integrity Tool

ORGANIZATIONAL PROJECTS

- **HEV/BEV Software Testing – Unit Testing and Software Integration Testing for VW:**
  - Conducted rigorous testing for Hybrid Electric Vehicle (HEV) and Battery Electric Vehicle (BEV) software, ensuring functionality and integration with VW's systems.
- **ADAS Features Testing for FCA:**
  - Tested various Advanced Driver Assistance Systems (ADAS) features including TPMS (Tire Pressure Monitoring System), Cruise Control for Fiat Chrysler Automobiles (FCA).
- **Seat Comfort System with Extended Massager on LIN Protocol for VW:**
  - Implemented and tested an advanced Seat Comfort System with Extended Massager functionality using the LIN Protocol, ensuring compatibility and performance for VW vehicles.
- **Electric Power Steering (EPS) – ASIL D Compliant for Function Safety (ISO26262):**
  - Conducted comprehensive System Testing, Software Testing, and Functional Safety Testing for Electric Power Steering systems, ensuring compliance with ASIL D standards under ISO26262.
- **Door Handle Project for Audi:**
  - Led System Integration testing using Canoe and Doors tools for the development and validation of door handle systems, ensuring seamless integration and functionality for Audi vehicles.

WORK EXPERIENCE

Jan'2024-July'2024 | Senior Software Engineer | HUF India Pvt. Ltd., Pune, Maharashtra

Key Result Areas:

- Conducting requirement analysis and developing test cases for System Integration Testing (HIL Testing).
- Reviewing and understanding the functional and non-functional requirements of the system.
- Developing detailed test plans and test cases based on the requirements.
- Creating comprehensive test cases that cover all aspects of the system.
- Executing test cases manually or using automated testing tools, reporting and documenting any defects or issues found during testing.
- Developing and maintaining automated test scripts where applicable.
- Performing regression testing to ensure new changes do not adversely affect existing functionality.
- Ensuring that testing activities comply with organizational and industry standards.
- Ensuring **A-spice** projects compatibility by majorly with Software and System Processes System Requirements Analysis (SYS.2), System Integration and Testing (SYS.4).

Mar'2021 - Jan'2024 | Senior System Engineer | Hella Automotive India Pvt. Ltd., Pune, Maharashtra

Key Result Areas:

- Performed safety requirement analysis and documentation.
- Conducted safety-related verification and validation during testing phases.
- Enhanced safety documentation and implemented improvements to boost productivity and ensure compliance with safety standards.
- Coordinated daily tasks, tracked login and timesheet updates, and provided support to team members, ensuring seamless workflow and task management.
- Executed tests for the product EPS on the HIL bench.
- Collaborated with the team on project-related tasks, including Test Plan creation, Master Test Report preparation, and Test Execution.
- Managed customer change requests and participated in customer workshops and meetings.
- Acted as Test PCM (Problem & Change Management), overseeing all error reports and change requests.
- Supervised junior resources in knowledge transfer and task execution, contributing to the overall team's growth and development.
- Actively participated in defect review, build, and release meetings, fostering collaboration between development and business teams.
- Prepared and communicated weekly and monthly status reports, providing stakeholders with comprehensive insights into testing progress and outcomes.
- Ensuring **A-spice** projects compatibility by majorly with Software and System Processes System Requirements Analysis (SYS.2), System Integration and Testing (SYS.4).

Oct'2020 - Feb'2021 | Associate Consultant | Capgemini Technology Services India Limited, Pune, Maharashtra

Key Result Areas:

- Conducted End-to-End Testing activities, starting from defining Smoke, Sanity, Regression, and Product Journeys.
- Presented various release items to clients and business stakeholders.
- Logged and tracked defects throughout the bug management lifecycle.
- Promptly escalated project issues to Project Manager/Test Manager and offered technical assistance to test engineers.
- Played a pivotal role in creating comprehensive test data for various systems and environments, ensuring test coverage.
- Executed automation scripts across various browsers and environments, documenting and communicating defect results.
- Played a key role in resolving production issues, ensuring minimal disruption to business operations.
- Contributed to the resolution of onboarding tickets for live suppliers in the pre-production phase, ensuring a seamless transition to the live environment.
- Analyzed business requirements and defined comprehensive test scenarios, subsequently developing and executing test cases.
- Facilitated effective communication and coordination between QA and development teams.

PREVIOUS EXPERIENCE

Apr'2019 - Apr'2020 | Systems Engineer | Tata Consultancy Services on Payroll of Sellcraft Global Solutions Pvt. Ltd., Pune, Maharashtra

Feb'2017 - Apr'2019 | Software Engineer | S&T Daewoo India Pvt. Ltd., Chakan, Pune, Maharashtra

PERSONAL DETAILS

Address : Pashan, Pune-411008, Maharashtra

Date of Birth : 9th August 1994

Languages Known : Marathi and English