Ph.: +919886191918 P. ANITHA SREE anithasree2411@gmail.com

CAREER OBJECTIVE:

Results-driven Software Component Owner with a proven track record in the Automotive domain, seeking to leverage my experience in software development and component ownership to excel as an Automotive Functional Safety Engineer. Committed to ensuring the safety and compliance of automotive systems.

Key Skills and Competencies:

* **8.2** years of working experience in the Automotive domain.
* Working as Software Component Owner in VOLVO Trucks client location.
* Previously worked as Software Test Engineer in TECH MAHINDRA LIMITED.
* Also worked as Requirement Management Engineer for Volkswagen Project.
* Over the years of experience as a Software Component Owner, specializing in software development and integration for automotive applications.
* Proficient in software architecture, design, and implementation in compliance with industry standards and best practices.
* Strong analytical and problem-solving skills, with a focus on optimizing software components for performance, functionality, and safety.
* Seeking to apply my expertise in software to contribute to the development of safety-critical automotive systems in accordance with **ISO 26262**.
* Adept at utilizing tools such as IBM Engineering Requirements Management **DOORS**, **PTC** Integrity, **Confluence** and **JIRA.**
* Led the development and integration of software components for automotive systems, collaborating with cross-functional teams to ensure component performance and functionality.
* Oversaw software architecture, design, and implementation, optimizing components for efficiency and reliability.
* Managed the software development lifecycle, including requirements gathering, design, implementation, testing, and release.
* Collaborated with system engineers and safety engineers to ensure component compliance with ISO 26262.
* Excellency in handling the process oriented and project related communication with the clients.
* Good competency in carrying out release activities and involved in Software release process.
* Good understanding of CAN protocol.
* Working experience on Automotive Tools like Vector CANOE, CANalyzer.
* Good customer facing and communication skills and able to prioritize and plan effectively.

EXPERIENCE:

* Worked as software test Engineer in Tech Mahindra Limited, Bangalore from August 2015 to February 2016.
* Worked as Software Requirement Management Engineer for Volkswagen Project TECH MAHINDRA LIMITED, Bangalore from 2016 to 2018.
* Worked as Senior Software verification engineer (VOLVO client) in HCL TECHNOLOGIES LIMITED, Bangalore from 2018 to 2020.
* Working as Software component owner (VOLVO client) in HCL TECHNOLOGIES LIMITED, Bangalore from 2020 to till date.

Education qualification:

* Bachelor of Technology (EEE) from JNTU

SKILL SET:

- Software Development and Integration (Process oriented)

- Software Architecture and Design

- Code Review and Quality Assurance

- FMEA Analysis

- Automotive Systems Knowledge

- ISO 26262 Compliance

- Safety Concept and Risk Assessment

- Change Management

- Collaborative Problem Solving

- System Testing

Projects Undertaken:

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| Project 1 | Software Product Management for TGW (Telematics Gateway) |
| Customer | Volvo |
| Role | Software component owner (TGW) |
| Location | Volvo , Bangalore |
| Description | Telematics Gateway (TGW),this allows the Volvo workshop to monitor the vehicle’s wear and condition and also read trouble codes remotely, using the GSM network.  The new system allows the workshop’s service technicians to check how much mileage the truck has covered and how quickly the various components are being worn out. After this, the workshop can plan the servicing according to the individual vehicle’s actual needs. |
| Responsibilities | Assisted in gathering and documenting software requirements for automotive infotainment systems and embedded control units.  Worked with JIRA to manage and track requirement changes, ensuring consistency and traceability.  Participated in the verification and validation of software requirements by creating test cases and executing tests.  Supported the preparation of documentation required for regulatory compliance ISO 26262 and audits.  SW Download testing:  SW breakdown test in Protom, Prosit, Engineering Tool and Tech Tool (Volvo internal tools)  KOLA  Creation of SW/HW part numbers, D-DCN, K-DCN and KOLA variant/parameter steering  SEWS  Maintaining and documentation of parameters, DTCs and routines,  I4/I5 Regression  EDR  Engineering Design Review check list  Campaign Document for RSWDL  SW Configurator documentation for each SW release  Deliver SW to SW Configurator  Deliver SW to Configurator for E2E testing (RSWDL etc.  VCE/VBC/UD/USA/ AVT  Supporting local component owner with Prosit+/Configurator/KOLA issues.  E2E testers Support  Supporting E2E testing with NTPs and baseline creation  Implementation support  Support Implementation support with SWDL and connectivity issues  All the above-mentioned tools are Volvo internal tools which are used for release management activities. |
| Tools used | All the above-mentioned VOLVO internal tools and JIRA |

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| Project 2 | Verification and validation for IECU GTT (Volvo). |
| Customer | Volvo |
| Role | Test Engineer |
| Location | Volvo , Bangalore |
| Description | IECU is one of the mandatory ECU in Asia value Truck platform. The main function of the IECU is to realise functionalities at a vehicle level. It also acts as a Gateway to communicate and exchange information with other ECUs. |
| Responsibilities |          Study of Software Requirements Specifications (SRS) document.           Developing test plan, test procedure, test Requirement Document.           Testing of the ECU Functionalities as per the Test cases defined in the Test Requirement Document.           For testing purpose develop scripts using PN tool.           Involved in rising and tracking of various Trouble Test Requests, until the issues were closed.  ****         Attending the status meetings without fail and have good customer interactions.           Configured the Work products in ClearCase. |
| Tools used | Vector CANOE, CANalyzer, ET tool, NI test rig, ClearCase, JIRA |

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| Project 3 | Requirement based testing through Vector CANOE for BMW for ACR |
| Customer | ZF-TRW Automotive (Germany) |
| Role | Test Engineer |
| Location | **Tech Mahindra Ltd, Bangalore (Offshore)** |
| Description | Requirement based testing for BMW |
| Responsibilities | * Analysis of Functional Requirements and preparation of test setup and test cases based on the requirement documents and updation of Test Specifications and Traceability matrix. * Automating of test cases using CAPL Scripting. * Reporting all deviations found during testing to the customer via email or call. * Ensuring compatibility with previous releases and integration with other applications and ensuring adherence to quality standards for final deliverable. * Guiding the team on the validation task. * Self-review of the completed task and review the task done by peers. * Uploading the finalized work deliverables into PTC Integrity and DOORS. |
| Tools used | Vector CANOE, VFlash Tool, DOORS |

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| Project 4 | Requirement based testing through Vector CANOE for DIAMLER AG ECU  for ACR |
| Customer | ZF-TRW Automotive (Germany) |
| Role | Test Engineer |
| Location | Tech Mahindra Ltd, Bangalore (Offshore) |
| Description | Requirement based testing for DIAMLER AG ECU’s (Verification and Validation) |
| Responsibilities | 1. To perform NTS (Network test suite) automated and Extended NTS (Manual tests).  2. To execute test cases Manually.  3. Automating test cases (CAPL Scripting).  4. Reporting the failures and issues to the client.  5. Updating the Final reports in DOORS.  6. Self-review of the completed task and review the task done by peers.  7. Uploading the finalized work deliverables into PTC Integrity and DOORS. |
| Tools used | * Vector CANOE, VFlash Tool NTS tool,DOORS |

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| Project 5 | VOLKSWAGEN |
| Customer | ZF-TRW Automotive (Germany) |
| Role | **Requirement Management Engineer** |
| Location | Tech Mahindra Ltd, Bangalore (Offshore) |
| Description | Main theme is requirement management of Volkswagen, i.e. to  create Software Requirements to test new software for Volkswagen from the scratch. |
| Responsibilities | * Collaborated with cross-functional teams to gather and analyze software requirements for Volkswagen Project, ensuring compliance with ISO 26262 safety standards. * Utilized IBM Engineering Requirements Management DOORS to define, document, and maintain software requirements throughout the development lifecycle. * Led requirements review sessions, fostering communication between software, hardware, and systems engineering teams to resolve discrepancies and ensure traceability. * Managed requirements change requests and track changes, ensuring that they are properly documented and approved. * Contributed to the development of Software Requirement Specifications (SRS) and maintained a comprehensive traceability matrix. * Worked closely with Quality Assurance teams to develop test plans and test cases to validate software requirements. * Played a key role in achieving ISO 26262 certification for several automotive software projects. |
| Tools used | PTC integrity, IBM DOORS |

Personal Information:

Permanent address: Bangalore

Languages known : Telugu, Tamil, English, Kannada, Conversational Hindi ,

French (Level 1).