

Sathish Kumar P

Mobile: +91-8790345633

Email ID: sathishazu@yahoo.com

Professional Summary:

- Having 10.3 plus Years of Experience in Project Support & deliverables of functional and UI level, Incident management of Web applications and testing.
- Lead all aspects of planning, designing, developing, implementing and managing various data related technologies, data warehouses, business intelligence and analytic projects.
- Proficient in a wide range of testing including System, Functional, Regression, User acceptance, Smoke and Sanity testing.
- Selenium with Java Web driver Testing, automation frameworks TESTNG, BDD and Jenkins CI
- API and webservices testing with SOAP Webservices, REST API and Jenkins.
- Experience in testing database Testing and API testing using POSTMAN and Rest Api.
- Experienced in Black Box Integration, Regression, Functional, Front End and Back End Testing.
- Previous Scrum experience Agile Project Methodology expertise
- Having good experience in ETL, MDM Testing, sql Database Testing
- Document authoring and Review skill and good communication skill have experience on client interaction
- functional testing tool knowledge like ALM Bugzilla, Jira
- Performed Regression, Usability Testing, Functionality Testing, Sanity Testing, GUI Testing, Product Testing, Agile Testing. Have a capacity to work hard in order to meet the stipulated deadlines.
- Hands on Experience in Compliance Testing of LIN, CAN, CAN and Diagnostics Protocols.
- Hands on Experience on Firmware of Linux and WHQL driver testing and GUI tool.
- Knowledge in serial communication interfaces I2C/RS-232/USB.
- Ability to understand customer requirements and Functional specifications.
- Hands on exposure writing scripts and Automation Sequences from requirements to Validation & Verification.
- Good Exposure on providing test estimates, test schedules, Participating in test plan reviews and Interactions with Customer.
- Extensive exposure in preparing Test Cases, analyzing requirements, developing validation test plans, test summary and final test reports.
- Team Player with good analytical and interpersonal skills.
- Expertise in understanding of Customer related issues, debugging issues & making analysis on the same; Initiating/supporting respective Depts. /Customers towards Solution.
- I am open, welcoming and able to work independently as well as in collaboration with team members. I do maintain peace, perspective and humor in stressful situations. Having documentation experience and glance at professional level, flexibility and maturity on a personal level and all to create a healthy balance between IT and life beyond IT.

Work Experience:

- Working as a Senior Software Engineer with Tata Consultancy Services from Foray Software Private Ltd. June 2021 to July 2022.
- Working as a Team Leader with Danlaw Technologies India Ltd. from April 2012 to Feb 2017.
- Worked as a Software Engineer with InfoTech Enterprises Ltd. from Feb 2011 to Feb 2012.
- Worked as Application engineer with Moschip semiconductor Technology Ltd (www.moschip.com) from Nov 2007 to Feb 2011.

Academic:

- B. Tech Specialization in E.C.E from The Vazir Sultan College of Engineering With an aggregate of 66%.

Technical skills:

Technologies: **C# and Linux**

Methodologies: **V model and Agile**

Databases: **MS SQL Server, MySQL, Azure SQL DB**

Software tools: **MS Office, Jira, MS Team Foundation Server, MS Azure, GitHub, Visual Studio 2019, Azure Data Studio, Azure Blob, Bugzilla, Bug Tracker ServiceNow, Eclipse, Selenium, SOAP, REST, Jenkins CI GMLAN Tester Tool, Vector Canoe Tools, Neo VI FIRE, Oscilloscope, Function Generator, multimeter, Pico Scope Tool, PCI scope, Performance analyzer.**

Automotive and Serial communication protocols: **GMLAN, CAN, LIN. USB, and Serial port (RS232, RS422/485), Parallel port, I2C, SPI, Ethernet.**

OS: **Linux, Windows XP / Vista / 2K / 98 / ME & Win 7**

Projects Details:

Project Title # 1	RCM (Remote Container Management)
Client	Maersk
Tools	MS Office, MySQL, MS Azure, GitHub, Visual Studio 2019, Azure Data Studio, Selenium Web Driver, SOAP UI and ServiceNow incident management
Duration	June 2021 to July 2022

Project Description:

Unit and Device related is received into RCM EC through IOT via event hub. The data is processed by a function app using pre-defined business rules to identify unit/device/SIM Alarms, identify unit/device locations etc. This process is termed as event processing.

Activity:

Selenium Web driver testing for the front-end application.

Designing and developing the test automation frameworks TESTNG and BDD and Jenkins CI.

Responsibilities:

- Participated in Testing documentation reviews and walkthroughs, including those for Test plans, Test cases, and Test Summary Reports.
- Used TESTNG & BDD testing Framework as a test runner with Selenium.
- Used Selenium to expand test scenarios to catch more bugs and improve quality.
- Integrated with Continuous Integration tools Jenkins for running a test on a regular basis automatically.
- Performed dB testing and API testing.
- Analyzed the project documentation to ensure a thorough understanding of the requirements including, but not limited to user stories, technical specifications, design documents, use cases, flow charts, etc.
- Used HP ALM for Test Management, Defect Management and save/manage the automation scripts created using Selenium
- Worked autonomously and acts as a senior providing professional advice, managing and/or coordinating a technical area.
- Led technical areas within Quality Engineering projects using available frameworks and tools and established project plans with on-time and on-budget project goals.

Projects Details:

Project Title # 2	Electronic Steering Column Lock (ESCL) SWCAN Testing and Validation
Client	Nexteer

Tools	GMLAN Tester Tool, Vector Canoe Tools, Neo VI FIRE and Pico Scope
Duration	November 2014 to Feb 2017

Project Description:

Modern vehicles are fitted with a steering lock which is an anti-theft device. It is fitted to the steering column usually below the steering wheel. The lock is combined with the ignition switch and engaged and disengaged either by a mechanical ignition key or electronically from the vehicles electronic control unit.

Testing: Testing and validation of different Layers like Physical, Data Link and Network

Management of CAN. LIN and GMW3110 Diagnostic Protocols. Tools used Oscilloscope, Function Generator, multimeter and Regulated power supply etc.

Responsibilities:

- Team Lead Activities.
- Test plan development, test script development and Test execution of automated test Scripts.
- Preparing Test cases, schedules & necessary documentation for test reports.
- Customer interaction for understanding the test issues.

Project Title # 3	BWI 4 EBCM MODULES – CAN Testing and Validation.
Client	Continental.
Tools	Vector Canoe Tools, Neo VI FIRE and Pico Scope.
Duration	December 2014 to October 2014

Project Description:

Body control module is a generic term for an electronic control unit responsible for monitoring and controlling various electronic accessories in a vehicle's body. Typically in a car the BCM controls the power windows, power mirrors, air conditioning, immobilizer system, central locking, etc. The BCM communicates with other on-board computers via the car's vehicle bus.

Testing: Testing and validation of different Layers like Physical Layer, Data Link and Network Management of CAN and Lin. Tools used Oscilloscope, Function Generator, multimeter and Regulated power supply etc.

- Team Lead Activities.
- Test plan development, test script development and Test execution of automated test Scripts.
- Preparing Test cases, schedules & necessary documentation for test reports.
- Customer interaction for understanding the test issues.

Project Title # 4	UART Driver for Serial Communication using RS232 protocol.
Platform	2.6 kernel.
Tools	Gdb, Make.
Duration	March 2011 to January 2012.

Project Description:

This program is simple UART device driver code written for communication between two pc via RS232 protocols. In this code COM1 port is used for serial communication. So when the application program is executed, it will communicate with UART code inserted as module in the kernel. In this UART code we have designed to send data.

Responsibilities:

- Work on UART (PC16550D) driver on Linux.
- Firmware of Linux and WHQL Driver testing.
- Work on dynamic node creation in generic character driver.
- Porting on Linux kernel on different embedded boards.
- Involved in Debugging.

Project Title # 5	Gigabit Network Processor (MCS8144).
Platform	ARM V5TE Embedded platform.
Tools	IOZONE, Benchmark, Chariot.
Duration	September 2010 to February 2011.

Project Description:

The MCS8144/42 is a general-purpose SOC which is targeted for multiple Applications like Digital Signage, Point of Sale, USB Over IP, **Network Attached Secure Storage**, VPN, Internet radio solutions etc.

MCS8144 is a highly integrated System-On-a-Chip with 10/100/1000 MAC Controller, PCI Express Root complex, Endpoint interface, **USB2.0** Host controller and **I2C, SPI and PCI Express interface**.

Responsibilities:

- Functional Firmware Linux and WHQL driver testing, Performance & Regression tests.
- Defect tracking using Bugzilla.
- Prepared user manuals & necessary documentation.
- Customer interaction for understanding the issues.
- Worked closely with Embedded and software teams to analyze and devise ideas for OEM customers.

Project Title # 6	USB Network Processor (MCS8140).
Platform	ARM V5TE Embedded platform.
Tools	IOZONE, Benchmark, Chariot.
Duration	Jan 2010 to August 2010.

Project Description:

The MCS8140 is a general-purpose SOC which is targeted for multiple Applications like Point of Sale, **USB Over IP** etc.

MCS8140 is a highly integrated System-On-a-Chip with one 10/100

Ethernet interface, PCI Host that can support up to two PCI devices, **USB** Host controller, **I2C interface**. The MCS8140 consists of the following functional groups: an ARM 9 based CPU Subsystem, Hardware IPsec Module, **PCI and USB Host blocks**.

Responsibilities:

- Functional Firmware and WHQL driver testing, Performance & Regression tests.
- Defect tracking using Bugzilla.
- Prepared user manuals & necessary documentation.
- Customer interaction for understanding the issues.
- Worked closely with Embedded and software teams to analyze and devise ideas for OEM customers.

- **InfoTech Enterprises Ltd - (<http://www.cyient.com/>) - Software Engineer - Feb' 11 to Feb' 12**

Designation & Role: Software Engineer (Feb' 11 to Feb' 12)

- Active Participation with the Quality Assurance team.
 - Involved in Test planning and test strategy document preparation.
 - Review of Use cases and Test Scenarios.
 - Review, Preparation and updating Test Cases based on Business requirements and created test scenarios.
 - Performed Functional, Regression testing manually.
 - Performed dB testing and API testing.
 - Done data analysis for gathering test data.
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- Review of the defects throughout the defect life.
 - Preparation of defect report.
 - Used HP ALM for Test Management, Defect Management and save/manage the automation scripts created using Selenium.
 - Preparation of test execution plan and test execution tracker.
 - Participated in weekly group meetings.
 - Participated in weekly triage meeting.

- **Moschip Semiconductor Technology Ltd - (<https://moschip.com/>) - Application Engineer - Nov' 07 to Feb' 11**

Designation & Role: Application Engineer (Nov' 07 to Feb' 11)

- Active Participation with the Quality Assurance team.
- Involved in Test planning and test strategy document preparation.
- Review of Use cases and Test Scenarios.
- Review, Preparation and updating Test Cases based on Business requirements and created test scenarios.
- Performed Functional and WHQL driver testing, Regression testing manually.

Overall Responsibilities as Test Engineer

- Developed Test Cases based on Business requirements and created test scenarios.
 - Performed Functional testing manually.
 - Performed data analysis for gathering test data.
 - Performed Firmware of Linux and WHQL driver testing.
 - Identified defects and tracked the defects through closing.
 - Participated in weekly group meetings.
 - Executed Test cases and performed Regression testing
 - Gathered test data.
 - Performed End-to-End Manual Testing.
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