

Profile Summary

Professional System Engineer with thorough hands on experience in all levels of testing including smoke tests, black box tests functional, integration, system, regression tests, browser testing, web and mobile testing and delivery of quality software and applications to meet business, market and customer needs. Supportive and enthusiastic team player experienced in streamlining process and efficiency resolving project issues. Experienced in testing middleware API Functional Testing, Equifax, Billings, collections. Also experienced in testing web-based AT&T Admin GUI, and banking Teller frontend and web-based online banking, and Embedded Medical Devices applications such as ExactaMix, OPTIS OCT imaging, Apptivue, Ultreon, DICOM, and OTA Cloud Connectivity Testing.

- Hands-on experience on product Testing of Medical Software (OCT cardiology Vascular, Ultreon, F.O)
- Hands-on experience on Testing Middleware API's impacting upstream applications. (Credit and Validations, Workforce, Management, Network Management).
- Hands-on experience on Testing Banking Teller application and customer interacting Web-based Software.
- Experience in system verification testing, troubleshooting and technical documentation
- Firmware Software Testing and version verification
- Experience in Quality Management Systems, ISO 13485 and risk Analysis as per ISO
- 14971, MISRA C compliance
- Experience in Review Requirement specifications, technical development documents, project implementation and release to production phases
- Good team player and experienced in managing team
- Excellent capability to explore, learn and understand newer business domains and technology

Skills

SCRUM Master, Cross-Functional Team, Customer Validation, Product Requirements, JIRA, JAMA, Jenkin, Microsoft Azur, Thingworx Windchill, Nexus Repository, Stream-Catcher, SharePoint, Git Version Control Repository, Leadership, User Testing, User Interviews, Metrics & Analytics, Initiatives, Software Development Life Cycle – SDLC, cPanel, File Manager, FTP, WordPress for Web Designing, WEB Hosting and Publishing Websites.

PROFESSIONAL EXPERIENCE**Abbott Medical, Westford, MA (Contract thru Software Solutions USA, Inc/Capgemini America.)****02/2022 – Present****R&D Cardio Vascular Division****Medical Device Embedded Software Verification Engineer**

Optical Coherence Tomography (OCT) is an imaging modality that uses near-infrared light to provide high-definition images of the artery with high precision allowing to access lesion characteristics and plaque morphology for coronary artery disease. OCT provides automated, accurate measurements to help guide stent selection, placement, and deployment. OCT imaging can be used pre and post-PCI (percutaneous coronary interventions) to guide procedure planning and treatment decisions.

Microsoft has discontinued the support for windows 7. Migrated the OCT cardiovascular system to Windows 10 operating system including Cybersecurity is an essential feature, and IoT is a value addition scope added to the project.

- Performed analysis requirements and test artifacts and identify gaps with traceability requirements.
- Developed Testing artifacts and design test case Validation and Verification of embedded device on OPTIS – IUMEIN, OPTIS-MOBILE and OPTIS-Integrated platforms for OPTICAL COHERENCE TOMOGRAPHY (OCT) Vascular and Angiography imaging testing, according to, FDA regulatory, and ISO 13485 standard procedures and GDP.
- Developed and updated test cases related to the system hardware.
- Updated the existing protocols of OCT system based on the new changes in OS and application
- Identified more than 50 software defects in Pre-DV which resulted minimum number of defects during DV1 testing. Identify, analyze, and document problems with program function and report software defects utilizing Jira and report defects to software developers, Track defect fixes, and support of the team. Interact with Product Owner, Project Managers, and development team to solve issues and update status.
- Participated daily basis QA/Dev Scrum meeting and updates the testing status.
- SME for E.6 OCT and FFR software.
- Executed deployment of OPTIS software manufacturing install build versions and field upgrades including BIOS upgrades and re-imaging windows on various platforms such as Optis Mobile, Integrated on Gen1 and Gen2 pcs.
- Executed functional testing includes but not limited to the Bit locker encryption, OCT imaging recordings, Physiology FFR/RFR recordings, Anglo acquisition, co-registration, Logs verification utilizing PowerBI, Verification of Event Viewer and Service Logs

- o validated version frameworks, Connectivity provisioning, Export Patients Data in Dicom/Standard format, PowerBI Logs verification, International Keyboard Testing, Language Testing, OCT and Anglo Pullbacks Hi-Res/Survey and Stationary mode, and Stent detection functionality.
- o Tested Migration of Windows 7 to Windows 10. Ensuring previous values preserving in post upgrades. Values including DICOM, Display, Room Manager, Database, physicians, Pullbacks, Security Policy, etc.
- o Executed the functionality involving acquisition with Anglo co-registration data, live data acquisition faults, survey/high res Anglo frame totals, and various functionality associated with the parameters file.
- o Tested Software Firmware versions (IDEA) for Anglo pullbacks.
- o Tested OCT & FFR Fault Handling, DOC Motor Rotation Fault, detected infrared/laser signal by removing PIU optical, engine initialization error, PIU Test Fixture, Tested DOC Communication failure by inducing/turning either Tx or Rx switch OFF.
- o Tested broken catheter error messages and several other application error messages.
- o Performed Setup Anglo Frame Grabber (FG2).
- o Performed Connectivity OTA software installation create and deploy packages over the air cloud base.
- o Performed Swaps PC's on OPTIS-Mobile and OPTIS-Integrated systems
- o Maintained R&D equipment records
- o Reproduced defects to help development team.
- o Documented Software verification and validation detail observations in actual results verses the expected results of a test case scenario(s) while maintaining Good Document Practice (GDP) following ISO 13485 and FDA regulations. Also identified several protocols issues.
- o Updated test case status in Test Runs with appropriate pass/fail on the validations utilizing Jama tool.

Baxter/HCL Technologies, Round Lake, IL (Contract thru Software Solutions USA/HCL)

08/2021 – 12/2021

Nutrition Project (NPD) R&D.

Medical Device Software Test Engineer

The ExactaMix Compounder is an automated pumping system that compounds multiple sterile ingredients into a finished solution in a single patient bag. Using a formula provided electronically or entered manually, the compounder withdraws a specified volume of each ingredient from its source container in a specified sequence, and pumps each ingredient into a patient bag. The finished solution is delivered to patients intravenously. This compounder is to be used to compound solutions such as: • Total Parenteral Nutrition (TPN) • Continuous Renal Replacement Therapy (CRRT) • Cardioplegia • Base solutions • Epidurals.

- o Planned and executed test cases of embedded medical ExactaMix Compounder devices as per FDA regulatory, and ISO 14971, ISO 13485 standard procedures.
- o Performed Functional Testing of embedded tests in lab for Medical device based compounder application in E2E, UAT environment.
- o Functional Testing of Medical device ExactaMix Display/tablet application for EM1200 or EM2400 ports.
- o Identified and reported defects for unexpected results and triage defects. Created and track defects utilizing JIRA.
- o Facilitated team status meetings.
- o Backup and restored ExactaMix databases. Validated devices can access USB drives, WIFI, and TCP/IP access.
- o Validated the database tables via SQL Cipher Database Viewer tool.
- o Performed setup to Calibrate Load Cell, setup configuration, and change tube set, Prime Inlets and calibrate compounder via display module. Unix basic commands and scripting Utilized UNIX commands to navigate file systems and reading log files.
- o Burned or imaged software into SD card chip and Installed newer software version builds on Linux secured and unsecured display modules through MobaXterm.
- o Installed or enrolled certificates on Secured 1.0 or 1.5v devices for ExactaMix software applications.
- o Set display type and device type and UTC (Coordinated Universal Time) time zone during software installation.
- o Documented validation detail observations in actual results along with evidence verses the expected results of a test case scenario(s) while maintaining Good Document Practice (GDP) following ISO 13485 and FDA regulations. Also identified several protocols issues.
- o Updated test case status in Test Runs with appropriate pass/fail etcetera based on the validations utilizing ALM.
- o Approved test runs for associated test cases and routed for next level 2 and level 3 approvals in Application Lifecycle (ALM).

UMB Bank, Kansas, MO. (Contract thru Software Solutions USA, Inc/ ZenTest)

02/2018– 07/2021

Financial Software Quality Assurance Engineer

Teller application allows banking Tellers to serve their customers via Teller application to process day-to-day financial transactions, check customer balances, account details, funds transfers move funds from one account to another account, make payments, view transactions, Deposits funds and withdrawals funds and more and open new customer accounts or make changes to existing accounts.

Online banking allows a user to conduct financial transactions via the Internet. Online and mobile banking offers customers almost every service traditionally available through a local branch including deposits, transfers, and online bill payments and create and manage individual or business accounts.

- o Designed and Executed test cases for Buy Cash/Sell Cash features and Cash drawers

- Designed and executed test cases for Forms, Individual and Business accounts, Transfer funds to another accounts, and Rollover IRA accounts for new and existing customers.
- Designed and maintain test data sets to support functional and regression testing.
- Performed UMB Online and Mobile Banking application mobile platforms Android , IOS, platforms and Chrome, Firefox, Microsoft Edge browser testing) and Cloud based web testing in E2E, UAT environment.
- Utilizing ticketing systems (like Jira, QAC, TFS) for triaging tickets/issues, test report Application Life Cycle (ALMQC)
- Analyzed Backlogs, User Stories, Create Test Plans and Design Test Scripts, Test Estimation.
- Created or developed detailed test cases based on end user workflows and software system business requirements (BRD).
- Performed manual testing on web-based Bank Teller Dashboard and Customer Dashboard system on End to End (E2E) test environment in agile methodology and familiar with SCRUM practices.
- Manually Executed Teller Application Device testing such as scanner, printer, Receipt Printer, with deposits, withdrawals, cash out, payments, Funds Transfer, credit cards payments, Transaction Reversal, Cash Drawer Management, Money Distribution and Mainframe Hogan and Branch Settlement validations.
- Validated and Tested Supervisor Override and Teller override limits and ensured transaction triggered per transaction/role limits. Check SPLUNK logs to validate transactions.
- Validated and verified Test Individual and Business type account openings for new and existing customers for various checking DDA, savings, and retirement and IRA products. Managed and Mentor Offshore Test Teams members.

AT&T Services, Inc, Schaumburg, Illinois

09/2000– 12/2017

QA Systems Engineer / Architect Level 2 Manager

Middleware software provides common services interfaces and capabilities to applications outside of what's offered by the operating system. Data management, application services, messaging, authentication, and API management are all commonly handled by middleware.

• QA Team Leadership:

- Oversaw and coordinated functional and regression testing in pre-production environment for CSI – Credit & Validation interfaces including any post production defects.
- Planned testing strategic testing, processes and procedures and responsible for Middleware testing and validating end to end flows in billing system like TELEGENGE(Amdocs) and CARE (Converges) and enabler(Clarify), Equifax, banks (i.e., Creation, activation, usage, billing processes, Credit and Validation, Execute credit check, Unified Credit Check, Add Promise to Pay, payment), Billing Accounts, and collections.
- Communicated test management dashboard status metrics and reports (health, forecast, issues, risk management, project status, etc.) to stakeholders in a timely, accurate, and honest fashion.
- Utilized Jira and ALMQC Dashboards. Participated and provided project work estimates for all testing phases to product owners. Led TMO Test Management Office function with senior stakeholder requirement gathering and interactions. Trained ALM QC and JIRA tools at the organization level. Trained and mentored new resources.

• Testing Coordination

- As a Business Manager, Led QA coordination activities such as walkthroughs/peer-review of Development detail design Technical Design. Analyzed Business and Technical design documentation, and Test Plan artifacts for test case scenarios and scripts. Proven SDLC experience with full command of QA procedures Waterfall and Agile methods.
- Coordinated with team for all phases of the Software Development Life Cycle and facilitate certification for production deployment in SWIM and API 360.
- Coordinated defect triage calls/meetings, report and track defects/bug backlog in ALM QC tool and assigned or escalate defects to defect owners such as dev, backend downstream systems, and vendor data until closure.
- Coordinated QC testing timeline for new functional Projects. Including timeline to Regression test in consideration along with Functional tests ensuring delivery of high quality software solutions on schedule.
- Actively worked with Project Managers, developers, and requirements team in order to support release management.
- Planned, organized and monitored staff resources to ensure efficient utilization of technical and administrative resources to keep projects at or below budget. Assigned resources to future projects and maintain internal project database.
- Developed detailed work plans, schedules, project estimates, resource plans, and status reports.
- Created and implemented Supply Demand metrics and reports for projects.
- Supported computer lease rolls and or order pcs for expiring pc rolls for team members. Track and audit assets being used by onshore resources.
- User Access Management (UAM) - Reviewed and validated share points access for the team members and add or remove users as needed. Performed role-base Audits semi-annually for RACF ID/SVN/UAM users for CST team.
- Managed and mentor Offshore Test team and resolved any issues.
- Managed user's access for various system access including UAM, SVN repositories, and also validated users semiannually for proper access. Created New Domain Accounts for new contractors. Reviewed and approved complete traceability metrics ensuring test cases and or user stories are mapped with requirements.

- **QA Competencies**

- Ability to work in ambiguous environment and deliver projects with no supervision and direction.
- Excellent verbal and written communication, analytical, team-oriented, leadership, facilitation, strategic thinking, problem solving, decision making, and negotiation skills.

- **Testing Coordination**

- As a QA Software Engineer, Led QA coordination activities such as walkthroughs/peer-review of Development detail design documents, Analyzed Requirements, and Test Plan artifacts for test case scenarios and scripts.
- Proven SDLC experience with full command of QA procedures waterfall and agile methods.
- Coordinated with team for all phases of the Software Development Life Cycle and facilitate certification for production deployment in SWIM and API 360.
- Coordinated defect triage calls/meetings, report and track defects/bug backlog in ALM QC tool and assigned or escalate defects to defect owners such as dev, backend downstream systems, and vendor data until closure.
- Coordinated QC testing timeline for new functional Projects. Including timeline to Regression test in consideration along with Functional tests ensuring delivery of high-quality software solutions on schedule.
- Actively worked with Project Managers, developers, and requirements team in order to support release management.

ACADEMIC BACKGROUND

ANDHRA UNIVERSITY

Bachelor of Science in Mathematics and Computer Science, Andhra University, India.
Pre-Engineering, Oakton Community College, Des Plaines, IL.
Microsoft Certified Professional (MCP)

ACHIEVEMENTS

- Received SBC Certificate of Appreciation upon successfully completion Light Speed projects.
- Received SBC Certificate of Appreciation upon successfully completion of WOW project.
- Active Board of Director for non for profit organization, Lake In the Hills, Illinois
- Served 10 years as Weekend School Principal for non for profit organization, Lake in the Hills, Illinois.