

## SOFTWARE DEVELOPMENT ENGINEERING IN TEST - SW PRODUCT DEVELOPMENT

### Career Overview

Detail-oriented professional with extensive system administration scripting experience using Perl, Bash and KSH shell programming technologies.

### Qualifications

Software Testing Test Automation (Server/Portal/iOS/Android/BB), Requirements reviews, software metrics, test planning and design. SW Languages & Scripting JAVA, C/C#, Python, PHP, JavaScript, VHDL, SQL, HTML, JSON Environments Eclipse, Visual Studio, Freescale Code Warrior, MPLAB, Momentics, Windows, QNX, Linux/Unix. Protocols & Technologies TCP/IP, Wi-Fi, GPS, Cisco CCNA. Tools Selenium, Xcode, Apple Instruments, UIAutomator, REST Consoles, EWS, Jenkins, Perforce, Subversion, MKS Integrity, Eagle PCB design, Atlassian JIRA, HP-Quality Center, OmniPeek/WildPackets, QDART ( QRCT, QXDM), QCAT

### Accomplishments

- A talented, solutions oriented computer engineer, Skilled in software development, software testing and software test automation. Experienced in most areas of Software development and testing (Embedded, Server, Web and Mobile). Recognized for outstanding problem solving skills, adaptability, voracious appetite for learning and a proven track of excellent performance
- Leader of senior year graduation project 2006, "Microcontroller Based Digital Signal Processing" third place winner in the Intel graduation project competition
- IEEE member 2005 - 2008

### Work Experience

Software Development Engineering in Test - SW Product Development Dec 2013 to Mar 2015

Brucker Corporation 1/4 Boston, MA

- Software Test Automation Lead
- Answerable for All Software test automation of the product components including server, portal, iOS client and Android client.
- Designed, Architected and developed an integrated automation solution utilizing Robot Framework to build the product automation framework for all the components.
- Developed python drivers to interface Robot framework with native automation tools such Apple's Xcode instruments APIs (Java script) and Google's uiautomator APIs (python and Java).
- Utilized Selenium and product's RESTful web services to perform portal and server automated testing and integrated it within the framework along with client testing for full end-to-end testing (server - client).
- Built a Java/Python Exchange web services tool to control exchange accounts used for testing in the framework allowing full control of the PIM data on the exchange servers and interaction with the Server and Clients.
- Lead the automation teams (local and offshore) on converting the manual test cases into automated execution.
- Integrated the Automation framework to be run using CI (Jenkins) for periodic automated runs and report generation.

Radio Software Product Development Nov 2011 to Dec 2013

BlackBerry 1/4 City, STATE

- Software Developer - Software Test & Integration
- Answerable for factory automated board level testing software (BLT) responsible for OS testing, RF calibration, RF testing and hardware validation of BB OS and BB10/QNX based products.
- Integrated, enhanced, and customized platform based calibration software in C# & Teststand scripts to suit assigned products, enhance testing yields, and improve test times.
- Responsible for WiFi software bring-up and support in new BB10 products with support ranging from platform software integration, feature development, sanity testing, defects analysis, root causing to resolution.
- Acted as a liaison with hardware teams, testing team, certification labs, OS teams, third party vendors and other parties involved in the Product development cycle providing support to ensure a seamless production process.
- Traveled to factory locations to ensure initial product builds' sanity and provided product specific training to factory personnel.
- Interfaced with chipset vendors on resolving issues, integrating firmware and driver software into products.
- Utilized various tools to test Qualcomm based BlackBerry products such as QSPR, QRCT, QXDM, and QPST.

Software Test Developer - Student Jan 2010 to Nov 2011

Research In Motion - BlackBerry 1/4 City, STATE

- Sunrise, FL Jan 2010 - Nov 2011 New Products Introduction, Software Verification and Validation Software Test Specialist
- Developed and maintained automated testing software and scripts at all layers of the products: API level, application layer (mobile testing apps) and driver level.
- Designed PHP/MySQL Web based tools (such as hardware tracking tools) to assist the team in daily activities and minimize effort.
- Enhanced existing automation test tools and created scripts using Python and Java to automate and speed up the Stress and Reliability testing.

Service Technical Specialist Mar 2007 to Jan 2009

AT&T 1/4 City, STATE

Education and Training

Master of Science, Computer Engineering Florida Atlantic University 1/4 City, State, US Florida Atlantic University Boca Raton, FL Aug 2010

Master of Science in Computer Engineering - GPA: 4.0

Bachelor of Science , Electrical Engineering Alexandria University 1/4 City , EG Alexandria University. Alexandria, EGY Aug 2006 Bachelor of Science in Electrical Engineering, Communications & Electronics Division

Certifications

CCNA

Skills

Testing, Product Development, Transmissions, Automated Testing, Java, Python, C#, Calibration, Emc/rf, Firmware, Integration, Integrator, Liaison, Production Process, Qnx, Rf, Rf Testing, Software Integration, Software Product Development, Teststand, Training, Api, Application Layer, Mysql, New Products, Php, Reliability Testing, Software Verification, Web Based, Android, Cases, Clients, Drivers, Exchange, Ios, Manual Test, Offshore, Restful Web Services, Robot, Software Development, Structured Software, Test Cases, Web Services, Xcode, .net, Ccna, Cisco, Cisco Ccna, Code Warrior, Eclipse, Engineer, Freescale, Gps, Html, Ieee, Javascript, Json, Linux, Linux/unix, Metrics, Pcb, Pcb Design, Perforce, Problem Solving, Rest, Scripting, Signal Processing, Software Metrics, Software Testing, Solutions, Sql, Subversion, Tcp, Tcp/ip, Test Planning, Unix, Vhdl, Visual Studio, Electrical Engineering