

Engineer - Software QA

(Position Code M010)

Roles and Responsibilities:

As a Software QA Engineer, you will be working on latest technologies, varied processor platforms, different Operating systems, innovative designs and implementation methods. An ideal candidate for this role will have strong analytical and logical skills, burning desire for perfection, excellent communication skills and an auditor's mindset.

As a Software QA Engineer, you will be responsible to assure and enhance the quality of products designed at Matrix. The role of a Software QA Engineer is analogous to a 'Firewall' which sits between Matrix's design and development team and the customer; filters any bug entering the customer premise. The Software QA Engineer is a third-party qualifier of the product, a representative of a customer who expects the product to deliver worth its money.

This position demands an attitude of a critic to make positive criticism about the design, implementation and performance of the product.

Your responsibilities would mainly include.

- Preparing a test plan for the product.
- Writing and executing test cases for the product to be tested.
- Engaging closely with the software analysis and design team to understand the crucial design aspects to think of odd-case test scenarios.
- Working closely with the Software development team to understand the software implementation and smoke out the hidden implementation level bugs which could lead to performance deterioration.
- Working closely with the Technical Support Team to help them simulate the field scenarios and resolve them immediately taking help of concerned team members.

Requirements:

- B.E / B Tech in Electronics / Computer Science / M Sc. in Electronics/MCA or equivalent.
- 2-3 years of Software design and development experience, preferably of telecom products.
- Knowledge of programming languages viz. C, C++ or Java.
- Experience/Good Knowledge in one of the following languages/ technologies/ applications:
 - C, C++ or Java
 - HTML, XML, Java Script, CSS, Web feeds, PHP, CGI scripting, etc.
 - Linux, RTOS Application development
 - Windows Application development
 - Mobile Applications on any of the Mobile OS like Android, Symbian, iOS4, RIM OS (Blackberry), etc.

- Device drivers programming on Linux/Windows
- TCP/IP, Socket programming
- GUI programming using Qt, GTK, Android, etc.
- DSP algorithms
- Experience/Knowledge in either of the following:
 - In-depth knowledge of IP protocols viz. TCP/IP, RTP, RTCP, FTP, Telnet, DHCP, DNS, RSVP, SMTP, POP3, IMAP, SNTP, SNMP, HTTP, etc.
 - Knowledge of various telecom protocols viz. BRI, PRI, E1-CAS, T1-RBS, SS7, etc.
 - Knowledge of various protocols for sending Voice over IP viz. SIP, SDP, RTP, RTCP, H.323, MGCP, IMS, etc.
 - Understanding of Wireless technologies like GSM, UMTS, Wi-Max, LTE, GPS, Wi-Fi, DECT, Bluetooth, etc.
 - Experience in integrating/working with various components of a distributed next-generation IP based architecture including Softswitches, Gateways, SIP Proxies, Redirect servers, Routers, Switches, Media Servers, SIP Phones, IADs etc.
 - Knowledge of CTI protocols viz. TAPI, JTAPI, CSTA, etc.
 - Good Knowledge of Hardware devices like Micro-Controller, Micro-Processor, DSPs, Memories and other peripherals.
 - Good Knowledge of Embedded software design and development principles and practices.
 - Knowledge of IP networking, network analysis, performance and application issues using standard tools like tcpdump
- Ability to collaborate with other teams
- Excellent analytical skills.
- Excellent documentation capabilities.
- Knowledge of IP networking, network analysis, performance and application issues using standard tools like Wireshark, etc.

Freshers with all the above qualities can also apply.

This position is based @ R&D Center, Vadodara.