

SUMMARY

- Innovative individual with extensive experience within EMC/EMI, ESD, Electrical Safety, ISO/IEC 17025 accreditation, FCC, ISED certifications/approvals, IECEE CB schemes, Quality Assurance and Wireless Telecommunications industry
- Well-versed background in RF, EMC/EMI, Technical project management, Lab engineering/design, Project integration and planning, Quality control and Compliance for Wireless/Wired Microphones, Sound systems, Mobile devices, Wireless Modems and M2M (machine to machine) devices
- Exceptional organizational, oral/written communication, marketing, and leadership skills, Interpersonal, analytical, and problem resolution skills. Thrive in both independent and collaborative work environments

TECHNICAL SKILLS

Operating Systems Language/Software

Unix/Linux, Synergy, IOS, Android, Window XP Professional, Windows NT C, Hp Quality Center, ETQ, EMC 32, AMC32, SharePoint, Wireshark, Air Access, Debug Viewer, Event Viewer, Microsoft Office, Visio, Excel, Message monitor, Planet EV, Qualcomm PST, QXDM, QCAT, TEMS, Universal DM

Hardware

Network Analyzer, Spectrum Analyzer, Signal Generator Oscilloscope, RF amplifier, Antennas, ESD simulators, LTE emulator, CDMA network emulator, EVDO network emulator, GPS emulator Wireless Channel emulator, Faders

Technology Standards Protocol

FCC, ISED, IEC/ETSI, ISO/IEC,UL, GCF, PTCRB,CTIA
SS7, ANS41, ASERI, ETSI, ISDN, TCAP, TCP/IP, IPv4, IPv6, TCP/IP, HTTP, FTP, DNS, SNMP, VOIP

PROFESSIONAL EXPERIENCE

SHURE INC, Niles, IL

2016–2020

Manager, Compliance Labs (2016-2020)

- Planned/directed all activities related to the EMC/EMI and Electrical Safety testing products in cooperation with other department functions including Design Engineering and Quality.
- Managed staff of seven (Engineers and Technicians), including supervision, counseling, mentoring, performance standards and review and employee development. Assured both employee training and development met industry and accreditation guidelines. Developed goals for staff to achieve company objectives.
- Increased test capacity 2x and reduced certification lead time to 50% by efficient management, streamlined processes and procedures and set clear expectations.
- Developed a new equipment calibration process to reduce cost and lab downtime by switching to onsite equipment calibration and increasing calibration cycle resulting in cost savings of more than 50% and lab downtime reduction by 90%.
- Developed detailed models for each product validation specification that included labor needs, test equipment utilization, test sequencing, sectional throughput time as part of the overall department work plan. Collaborated with other department managers to achieve goals set forth in the total project test plans.
- Assured all test/validation programs were conducted and completed on schedule. Assured compliance to test standards specifications (EN/ETSI, FCC, ISED), testing accreditations (NIST, ISED, ANAB), and product performance.
- Reviewed/approved all test reports and procedures, reviewed assigned and closed all requests for test in ETQ management system. Also reviewed new industry standards and integrated new standards into the lab test capabilities.

- Managed/conducted internal audits per IOS 17025 guidelines, coordinated and handled ISO 17025 and IECCEB CB audits, lab testing scope updates and maintained NIST, ISED and ANAB EMC/EMI laboratory's recognition/accreditation status.
- Managed fixed assets, equipment performance, equipment repair, calibration, and maintenance. Lead problem resolution process and provides feedback for problematic equipment, issues with test specifications and problems found with the devices under test.
- Maintained expenditures, budgets, and capital investments. Also responsible for quoting and generating PO's (Purchase Orders) for necessary testing, equipment calibration, new equipment purchases and provides justifications.

Sr. QA Engineer (2016)

- Developed test plans, test cases, test specifications and test results documentation consistent with industry and internal customer standards and supervise QA testing.
- Performed verification and regression testing for bug fixes. Logged, tracked and resolved all bugs directly with developers.
- Tracked problem reports using a bug tracking system and HP quality center. Managed software testing environment and all aspects of the electronics design and project development cycle.
- Utilized electronic equipment including logic analyzers, oscilloscopes, multi-meters, spectrum analyzers, signal generators, programmable power supplies to test and debug hardware.
- Performed functional and regression testing in Linux and Windows environments.

U.S CELLULAR, Chicago, IL

2006 – 2016

Sr. Mobile Device Engineer

- Regulated Hardware/Software Testing per wireless standards (3GPP/3GPP2), Certification forums (GCF, PTCRB, CTIA) and internal/external specifications.
- Utilized Mobile Device, RAN (Radio access network) and EPC (Enhanced packet core) knowledge to provide tier 3 support for Network/Mobile device issues across the nation and lead outage calls to ensure timely resolution.
- Managed and ensured third party lab testing (Intertek, PC Test, 7 Layers, SGS and Cetecom) is in compliance with FCC, CTIA, GCF and U.S Cellular test requirements/standards and act as Subject matter expert (SME) to guide third party labs in case of any issues or failures.
- Developed and maintained M2M (machine to machine) and Mobile device requirements /Test plans along with U.S Cellular specific LTE, CDMA/EVDO OTA (over the air) device requirements.
- Developed and maintained software verification and validation test plans for IOS, Android and Windows based devices. Open CR (change request)/ SR (service request) with OEM's using HP Quality Center tool to ensure device software quality.
- Worked as Subject matter expert (SME) for all Lab testing {CDMA, LTE, CA (Carrier Aggregation) and IMS VoLTE}.
- Led a team of engineers and technicians to ensure all Lab, Software, and field testing was executed according to U.S. Cellular specification/requirements as well as the industry standards.
- Evaluated vendor capabilities and contracts for products and services, participating in the RFI and RFP processes for technologies such as IMS VoLTE and LTE, vendor road-mapping and ultimately resulting in overall vendor management.
- Utilized diagnostic and post processing tools like QXDM, QCAT, QPST and Wireshark to analyze field data including IA's (ineffective attempts), LC's (lost calls), receive power, transmit power, SNR, FER, BER, BLER to determine Mobile device performance.
- Analyzed field data to monitor IA's (ineffective attempts) and LC's (lost calls), Receive power, transmit power, Ec/Io, SNR and FER to determine Mobile device performance. Troubleshoot and resolved Pre/Post launch issues and provided detailed analysis reports to business on the root cause of the issue.
- Utilized R&S TS8980 FTA system to verify mobile device LTE Protocol conformance, RF conformance and other device certification aspects.
- Executed comprehensive device software testing to verify and validate key features including Wi-Fi, Bluetooth, GPS, SMS, MMS, CMAS and FOTA.
- Reviewed third party Bluetooth SIG and FCC certification results and issue acceptance.

3S NETWORK INC, Bellevue, WA

2005–2006

Associate RF Engineer

- Checked the daily statistical data, KPI and made changes in parameters to bring the network performance to the required level.
- Processed and analyzed Drive test data using TEMS, Actix, MapInfo, Google Earth and MCOM and created reports on the performance of the newly installed network.
- Checked for sector to sector handovers, sector to neighbor's handovers, sector swap and low signal strength.
- Prepared and installed all the drive testing equipment, verified port configuration, handset control, and equipment identifier.

EDUCATION

M.S. Telecommunications, DePaul University, Chicago, IL
B.S. Electrical Engineering, Wichita State University, Wichita, KS