**Jenny Chu**

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**OBJECTIVE**

RF, System and Application, Telecommunication Manager, Engineer

**SUMMARY**

Highly skilled telecommunication professional with more than 30 years technical experience. Network design and configuration of MII CDMA project. Landed the first CDMA contract MII (Ministry of Information Industry) project for Lucent in China. Nortel 1xRTT base station and handset testing. Alcatel-Lucent US UMTS and CDMA projects. Sprint circle of excellence of 2012. Cisco cSON for Sprint project. 10 + years LTE, 5G RAN Core experience and OTA testing. And familiar with ALU, Ericsson, Samsung and Nokia equipment. Having cloud and VM, container experience.

**WORK EXPERIENCE**

Sercomm Technology Inc, Potomac, MD  **May 2024-Present**

**Senior Field Application Engineer**

* Subject matter expert for Verizon customer 5G WiFi network deployment. Working on Teton devices in lab and field testing.
* Using console cable to debug, troubleshooting and support development team software and firmware upgrade.
* Using AT commands, linux commands and QXDM, wireshark tools for device testing and troubleshooting.

Samsung, Potomac, MD **June 2021-Feb 2024**

**Regional Lead Engineer**

* Subject matter expert for Verizon customer 5G network deployment. Configure eNodeBs, AUs, monitor network health and improve network KPIs using Samsung virtual EMS tools USM and CLI. Send out alarm reports and notifications to Verizon customers. Timely resolve network outage and alarms. Support Verizon tri-state rehome, analysis CBRS and DSS site performance issues and C-band cell deployment activities.
* Attending weekly customer meetings and present weekly resolved tickets to Verizon.
* Completed SAMSUNG RAN product training courses from Award Solutions. Completed AWS cloud practitioner training from AWS.

American Tower, Cary, NC **March 2020-Feb. 2021**

**Senior Engineer, Network Architecture**

* PLTE, CBRS network virtualization 5G design and testing. Altran vEPC installed at VM in Linux CentOS system with EMS, HSS, PGW, SGW, IMS, PCRF integration with Nokia eNodeB using XCAL, Wireshark analysis log files.
* Azure Microsoft cloud-based core networks architecture evaluation. OAMP/FCAPS development for SON features and ONAP. Altran EMS system configuration and upgrade. Strong knowledge in 5G and 4G LTE Architecture, with good understanding of Call flows from 3GPP release 15.
* ORAN architecture design for ATC, wrote test plan and ATC SRD documents.

Nokia, Reston, VA **April 2018-Feb. 2020**

**RAN Technical Support Engineer**

* AirScale 4G, 5G feature support for Sprint customers including software upgrade, regression, device (Samsung S9, LG, Motorola phones) and feature validation OTA testing including Carrier aggregation, Massive MIMO with each release analysis PHY/MAC/RRC/PDCP layers, MOP generation using Nokia Netact, BTS manager etc. Using spectrum analyzer, signal generator etc.
* Attended customer meetings and presented feature testing results. Use XCAL, XCAP, Wireshark etc tools.

Sprint, Reston, VA  **Feb.**2017-Mar. 2018

**Senior RAN SME**

* Fit reports generation for CA, VoLTE, WoWIFI, 4X4 MIMO etc 4G, 5G features using NetSmart and XCAP tool. Wrote VoLTE test plan for lab and field testing and VolTE use case category for Altan wireless proposal.
* Analysis discrepancy for ALU, Ericsson, Samsung, Nokia vendors for fit markets. Using wireshark, nBA, Iris tools.
* As OAI SDR 5G developer worked for Lime SDR configuration with Eurocom open stack software development.

Cisco, Herndon, VA **Oct.** 2015- Sep. 2016

**SON RF consultant**

* Cisco cSON AS (Advance Service) team member. Responsible for Sprint cSON project delivery including ANE (Automatic Neighbor Enhancement), DPO (Dynamic PCI Optimization) features NRT testing for Cleveland, LA, Dallas and NJ markets. Optimize Sprint LTE four fit market KPIs using these two automation features.
* Network elements monitoring, analysis, fine tuning, optimization and troubleshooting. GPA feature leader for lab integration testing. Interact with Sprint personnel to go through test cases and review the result for acceptance.
* Prepare for 99 markets phase I features deployment. Using Linux commands, JSON, XML, Jira, SOAP.

Sprint Nextel, Reston, VA **Nov.**2010-Sep. 2015

**RF engineer**

* LTE RAN development group. Award Solutions certified LTE RAN, Core (EPC, PCRF), IMS, VoLTE training courses. Samsung RAN leader and SON (Self Organizing Network) features leader. Responsible for Lab RAN vendor testing for Samsung, interface with Samsung OEM, review test plan, validate features testing with Samsung including eCSFB and SON features with all OEMs (including ALU, Ericsson, Samsung about RAN, Core, PCRF, QoS testing using QXDM, XCAL tools). Supervisor of Samsung embedded staff. Successfully launch 800MHz first call in Brainerd, MN at March 2013. Samsung 1900MHz 2nd carrier, 800MHz eCSFB NRT and fit testing. Study 3GPP standard RAN architecture and SON features. Manage OEMs SON related feature implementation. Write 800 MHZ public safety investigation, RAN security in LTE, RACH optimization SON feature, ANR SON feature, TTI bundling white papers. Lead and manage SON features validation in the lab and field testing for all OEMs. Implement first SON feature ANR (automatic neighbor relation) in Sprint LTE network in 2012. Familiar with 3GPP specification for LTE release 8&9, rail for these features implement and parameters optimization. Familiar with Rhode & Schwartz 8980 test equipment with UE RF conformance testing according to 3GPP standards 36.521-1 and ADB command using Vector signal analazer,, AMU, CMW500 etc. Develop roadmap for SON features. Won Sprint circle of excellence award in 2012.
* Wireless Technology Planning group. SON, SDC and eCSFB leader in the group. Interface between development team and engineering team. Create SON ANR guidelines, SDC optimization standards and guidelines for engineering teams. RFI/RFP interface for Sprint cSON project for OEM selection.
* Sprint contractor RF IV (Nexius Solutions from Mar.2015 – Sep.2015), work for Sprint MN market as RF engineer. Responsible for market RF optimization for macro and DAS sites. Analysis drive test data and give out recommendations. Improved Minneapolis, Falcon Heights, La Crosse etc cluster KPIs and made these clusters go green using Mapinfo, Google Earth, Planet EV, Windcatcher, Tableau tools.

Alcatel – Lucent, Herndon, VA  **April**, **2006-Nov. 2010**

**RF engineer**

* As MTS (member of technical staff) engineer - responsible for UMTS optimization projects for AT&T customers. At BaWa market take care of UMTS neighbor list implementation and cluster 7 and 8 optimization.
* For St. Louis market finish neighbor list and parameters change requests and keep market clean. Also responsible to run OCNS at St. Louis market and successfully load OCNS in very short time to support cluster drive.
* Parameter audit for all the markets. UMTS 5200RNCs swap out for 9370 RNCs KPI monitoring task and troubleshooting issue sites. Use Wips and WMS to install neighbor list changes and parameter changes for different markets. Alcatel – Lucent CDMA projects:
* Support Phoenix CDMA EVDO drive testing for Verizon customers. Support CDMA baseline drive for Colorado State for Sprint customers. Launch CDMA EVDO for Alltel customer at ND market. Responsible for optimization EVDO service and lead drive team.

Andrew Corp, Ashburn, VA  **Feb.,2004- April, 2006**

**Test engineer**

* Responsible for Geo location system WLS test and commissioning. Verify WLS installation well and functioning well in BTS and monitor E911 call getting location phase II info. Using Unix system telnet to WLS to monitor equipment situation and troubleshooting equipment problem.
* Responsible for field test of Cingular GSM network functionality. Field test for CSE performance of Cingular and AT&T merge ALLOVER GSM network. Fill in the test plan and provide solutions.

Belnet Canada, Ottawa **Feb**.**2002- Jan.2004**

**Engineer**

* Responsible for Wi-Fi network installation. To do cite survey in second cup coffee shop and installation access point. Install PC card radio and to do configuration.
* Meeting with customers and giving proposals for site installation.

Nortel Networks Canada, Ottawa  **Oct. 2000- Oct. 2001**

**Digital System Designer**

* Responsible for CDMA 1xRTT base station digital IC design and testing using ADS tool for RF Antenna design, VHDL for writing specification, Labview, spectrum and network analyzer for base station testing with Qualcomm chipset.
* Driving test for handset and base station (from the car using New Point mobile phones and laptops collect data and using CAIT, QXDM tool analysis. At the office using UNIX workstation collect BSM, OAM data from different base station and analysis soft handoff etc. performance).
* A member of 1xEV-DV modem design team. Involved design discussions for 3GPP2 standard CDMA base station activities related to 1xEVDV modem.

Lucent Technologies Co. Ltd., Beijing  **Feb.1996- June, 2000**

**System Engineer**

* Responsible for network design and configuration of CDMA and GSM systems, including writing proposal, customer presentation and technical support. Evaluating network performance and preparing work order for cell sites. Using Netcon and propagation tool CE4.
* Worked on China Unicom CDMA for network design national program (RF network design and core network design). Project included configuration, presentation and customer clarification (using Autoplex™ 1000 system, ECP13.0, OMP, Flexent® Base Station, Flexent®OMP, 5ESS Switch, Echo Canceler, CISCO Router, 3COM IWF, OAM).
* Responsible to deployment network (ECP, 5ESS, base station) and RF optimization (including BSS parameters, troubleshooting-quality, coverage and traffic issues).
* Worked on Gansu GSM system as **technical prime** for network design, configuration and customer presentation, using MSC, Base Station, OMP.

**Assistant Manager**

* Responsibility for customer presentation and technical maintenance of all Solution Center equipment including ATM, Frame Relay, video conference system and CDMA base station. Testing, troubleshooting and repairing all Solution Center equipment from component level.

Star Computer Company, Beijing **July, 1993- Feb. 1996**

**Technical Support Engineer**

* Responsible for customer presentation, test, troubleshooting analysis and equipment maintenance for MING REN PDA.
* Attended trade shows to showcase PDA products and giving demos to customers.

**EDUCATION**

Bachelor's degree, Majored in Physics Electronic Technology, University of Electronic Science & Technologies of China  **1993**

Jan 2002-April 2002 Finish RF IC design course as special student in Carleton University, Canada

**TECHNICAL SKILL**

* LTE (Award Solutions Certificated), SON (Self Organize Network), VoLTE, IMS, Rhode & Schwartz test equipment, NRT & device testing
* CCNA, LAN/WAN
* CDMA, IS-95 IS-2000 Standard, 3GPP2, CDG standard
* GSM, LMDS, GPRS, UMTS, IP, Mobile IP, Wi-Fi (wireless LAN 802.11), CDPD, E911
* SS7, X.25, IS-41, ATM (OC-3, OC-12 Standard), Frame Relay
* Programming languages: C/C++, Python, FORTRAN, PASCAL, BASIC
* Unix, Linux, MS Windows, Windows NT, MS Office (Word, Powerpoint)
* AWS cloud Practitioner certificate
* Bilingual: English/Mandarin