

Sundervelu Tandalam

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SKILLS

Technologies and Protocols: LTE, LTE-Advanced, VoLTE, LTE-Unlicensed, OFDM and TCP/IP.

Tools: QXDM, APEX, QMI TestPro, Actix, X-Cal, KPI-ATS, Spirent Nomad, SanJole, LogKit-3 and Wireshark.

Scripting Languages: Perl Scripting, Python Scripting and Batch Scripting.

PROFESSIONAL EXPERIENCE

Engineer I, LTE Modem Systems Test, Qualcomm, San Diego, CA. Oct 2016 to Current.

- Developed test plan and evaluated KPI's for 1Gbps 10 Layer with 256QAM downlink testing on Telstra in Australia.
- Driving all LTE Field Testing and Debugging issues on SKT, KT and LGU+ LTE cellular networks.
- Evaluated Modem performance and KPI's for 4x4 MIMO, Carrier Aggregation (4DLCA, ULCA) on Korean Networks in the Field.
- Actively involved in bring up, design and provided a Demo on the working of KPI-ATS, an automated testing tool.
- Working with Dev in bring up of LogKit-3, an On-Device logging app for KPI Testing for Field Team.

Field Engineer, LTE Modem Systems Test, Qualcomm, San Diego, CA. Feb 2016 to Oct 2016.

- Analyzed Field testing data and created KPI reports for latest Qualcomm Wireless Modem Software.
- Rendered competitive testing of Apple iPhone 7's, Samsung Galaxy S7's and Huawei Mate 9.
- Developed and Authored the technique to collect baseband and IMS logs from Un-Jailbroken iPhone's.
- Measured Audio Quality performance on MTPs and Commercial Phones.
- Carried out testing on Interference Cancellation, Link Quality Estimation, XLAT features in the Field and LTE-U on an experimental lab network.

Field Engineer, LTE Modem Systems Test, Qualcomm, Bellevue, WA. Jan 2015 to Feb 2016.

- Performed LTE-A functional and KPI testing on upcoming Snapdragon MSM and MDM chips.
- Tested 3 Carrier Downlink Carrier Aggregation, 256QAM and 4x4MIMO on live network.
- Developed automation scripts for testing and issue triaging using Perl (Automated TCP Dump collections), Python (Automated LQE testing) and Batch (Automated adb commands) scripting.
- Assisted in multiple customer related issues with joint testing and internal issue reproduction.

Technical Support Engineer,

CSS Corp Pvt. Ltd., Chennai, India. May 2010 to May 2012

- Provided VoIP technical assistances for Vonage Inc. with technical issue resolution of 98% and customer satisfaction of 95%.
- Managed a team of ten in the absence of the manager and trained 6 batches of new hires.

CERTIFICATES

Certificate of Recognition for excellent execution and overall contribution to the Rootmetric project (Qualcomm) August 2016.

Cisco Certified Network Analyst (CCNA).

EDUCATIONAL QUALIFICATION

University at Buffalo, State University of New York, Buffalo, USA.

Master of Science, Electrical Engineering (Signals, Networks and Communication), June 2014

St. Peter's Engineering College, Affiliated to Anna University, Chennai, India.

Bachelor of Engineering, Electronics and Communication Engineering, November 2010

PROJECT PARTICULARS

- Techniques to Increase Bandwidth in Near Field Communication by analyzing various techniques like Direct Antenna Modulation, Sigma-Delta Modulator and MIMO methods.
- Designed a Mismatch Filter with Chip Compression using Barker Codes for modern digital communication.
- ElecTrim, a startup concept using Powerline Communications with an in-house designed system with projected positive financial growth.
- Spy Rover controlled by GSM module with live video streaming via a Radio Frequency camera.

PROFESSIONAL AFFILIATIONS

Member, Institute of Electrical and Electronics Engineers

Member, IEEE Communications Society