

Sameer Pokharel

Denton, TX

-Email me on Indeed: <http://www.indeed.com/r/Sameer-Pokharel/81ffece1ba2e86e2>

Authorized to work in the US for any employer

Work Experience

RF Engineer

Arc Light Wireless

January 2019 to Present

- Working with DFIT/GFIT Project as per the requirement. Design and engineering activities to be performed on live structure.
- Providing Guidance to RF team ensuring consistency in Planning and Performing radio engineering evaluation for system planning.
- Responsible for FIT cycle generating test report for each cycle.
- Reviewing and designing LTE Radio Network Design Parameters.
- Verifying RF system performance by lab testing.
- Familiar with 3GPP standards, especially LTE and 5G.
- Performing system, feature, application, protocol, regression, sanity, Wi-Fi calling, Hotspot, KPI, throughput testing, call performance, VOIP and different kinds of Lab and field test cases.
- Hands on experience testing and troubleshooting RF, Analog, digital circuits using network analyzers.

Field Test Engineer

P3 Communication Inc

April 2014 to Present

- Working closely with project manager to accomplish assigned project tasks as per schedule and procedure for DFIT/GFIT project. Work at client site to understand project requirements, design interactive process flow and achieve expected results
- Responsible for complete FIT cycle, regressions testing, generates test report for each test cycle, and submit the results observed during test cycle
- Provide support for Ericsson IOT and NSN IOT lab testing as a part of Verizon carrier acceptance process
- Work with project lead for device certification
- Execute stationary testing and mobility testing for different firmware for VOLTE, IMS, SRLTE, LTE, EVDO, UMTS and CDMA2000 technologies using specific test procedure
- Accomplish analysis of SIP protocol messages, NAS layer messages, layer3 messages, IMS protocol messages, RADIUS, Diameter protocol and other LTE air interface messages from collected logs using QXDM and QCAT
- Performing system, feature, application, protocol, regression, sanity, Wi-Fi calling, Hotspot, KPI, throughput testing, call performance, VOIP and different kinds of Lab and field test cases
- End to end call flow VoLTE/VoIP testing, verify and debug SIP traces using Wireshark
- Accomplish Carrier Aggregation, LBS, AGPS, E911, OTA, eMBMS, Wi-Fi, Bluetooth test cases
- Create python scripts to automate and execute throughput test cases
- Collect QXDM logs, ADB logs and Wireshark logs for failure test case for troubleshooting
- Analyze the collected logs using QCAT and Wireshark

- Improve test coverage by adding additional test cases throughout testing
- Participate in weekly project status meetings
- Submit test result reports and analysis report for all performed tests and observed results

Field Interoperability Test Engineer

MOTOROLA MOBILITY INC

February 2013 to March 2014

- Field Interoperability Test Operations/New Product Operations is accountable and responsible for ensuring quality mobile device release and product shipping to Customers including ATT, USC, TMO, VERIZON and SPRINT by executing and maintaining thorough field test practices and test cases prior to product launch.
- Optimizing high capacity wireless CDMA, GSM, LTE and 3G networks using RF engineering technology
- Familiar with link budgets, RF propagation from Cellular antennas and radio features
- Perform product level testing of software and hardware releases based on customer and contractual requirements and evaluating live network specific interactions.
- Execute Mobile Carrier test plans for product development, DOE's, Carrier acceptance and maintenance releases; along with managing identified issues observed during all product test phases.
- Performed Test execution will be in mobile environment; travel as required to execute testing on defined drive routes.
- Prepare and deliver daily reports and log posting.
- Assist in analyzing, developing and maintaining test tools to validate product and system performance, while assisting Field Test team in resolving issues detected through testing.
- Participate in various meetings as required to assist in trouble shooting reported product/field issues.

RF Drive Test Engineer

GTL USA INC

August 2012 to February 2013

- Assisted AT&T with the launch of their 4G LTE network across the United States.
- Network optimization from design to implementation as well as process improvement.
- Working on Map Info and MS Streets and Trips to create drive routes for testing and optimizing the network.
- Performed RF Drive Testing for HSPA+ and LTE, signal verification, data collection of Outdoor Repeater Sites, Indoor BTS and 3G Outdoor sites using Hasati Network KPI and QXDM Logger.
- Created daily status reports and weekly pre-and post-drive reports.
- Actively participated in team meetings and work closely with Ericsson and Alcatel-Lucent's RAN integration engineers during the pre-launch, launch and optimization of AT&T LTE projects in various markets.

Research Assistant

University of North Texas

January 2010 to May 2012

- Assists professors in their research interests and students including Ad-Hoc Network, DSP, Simulation & Modeling, Filter Design, Sensor Network, Antenna design, and Microwave Engineering
- Matlab simulation and visualization of a Bouncing Ball
- The modeling of heart rate dynamics during the use of exercise equipment using Matlab
- Design of sun seeker system using Matlab
- Creating the error probability as a function of the SNR per bit for QPSK and 16 QAM Design of the compact dual band micro strip band pass filter without external feeds using IE3D

- Investigation of the impact of SNR Estimation Error on Adaptive Modulation
- Design of Antenna coplanar antenna using IE3D for 2.45 GHz. frequency
- Survey on Ad-Hoc Networks
- Low power wireless sensor Network for the application on Environmental Monitoring

Education

Masters of Science in Electrical Engineering

University of North Texas - Denton, TX

August 2012

Bachelors of Science in Electrical Engineering

University of North Texas - Denton, TX

December 2009

Bachelors of Engineering in Electronics and Communication

Maulana Azad National Institute of Technology - Bhopal, Madhya Pradesh

Skills

- 4G/LTE
- 3G
- Test Cases
- Debugging
- Software Testing