

## PROFESSIONAL EXPERIENCE

HARMAN CONNECTED SERVICES, BANGALORE	LEAD PRODUCT ENGINEER	APR 2019 – PRESENT
LNT TECHNOLOGY SERVICES, BANGALORE	LEAD ENGINEER	JAN 2015 – JUL 2018
KFORCE, INC, USA	PROGRAMMER ANALYST	JAN 2014 – SEP 2014
ADROIT BUSINESS SOLUTIONS, LLC, USA	QA ENGINEER	APR 2012 – DEC 2013
SUNSOFT SOLUTIONS, LLC, USA	NETWORK COMMUNICATION ANALYST	OCT 2008 – MAR 2012
GLOW NETWORKS, USA	PROJECT ENGINEER	JAN 2008 – SEP 2008
MOBILECOMM PROFESSIONALS, INC	ASSOCIATE RF ENGINEER	SEP 2006 – NOV 2006
MOBILECOMM PROFESSIONALS, INC	ASSOCIATE RF ENGINEER	JAN 2007 – APR 2007

## EDUCATION

- TEXAS A&M UNIVERSITY, KINGSVILLE - MS in ELECTRICAL ENG [EE] [GPA: 3.41/4.00], DEC.2007
- OSMANIA UNIVERSITY, HYDERABAD, IN - BE in ELECTRICAL & ELECTRONICS ENG [EEE] [GPA: 3.87/4.00], MAY.2004

## TOOLS & TECHNICAL EXPERTISE

CODING LANGUAGES	Basic Shell Scripting
TECHNOLOGY	5G (SA/NSA), LTE (R8/R9/R10/R11), UMTS(R99/R5/R6/R7/R8), GSM/GPRS, CDMA200 1X, 1xEVDO (Rev-0/A), TCP/IP
TESTING TOOLS	<ul style="list-style-type: none"> <li>a. Diagnostic Monitoring Tools: QXDM, STT, XCAL, TEMS</li> <li>b. Commercial Network Simulators: Anritsu MD8480/MD8430 Signaling Testers, Call Box: Agilent8960, R&amp;S CMU200, R&amp;S CMW500 Call Box (Flex), Amarisoft Call Box/Tester.</li> <li>c. Automation Tools: PAT and CLA both these tools are Intel Specific Automation Test Frame Works,</li> <li>d. OS: Linux, Windows, Android, MAC OS X.</li> </ul>
DEFECT TRACKING TOOLS	HP ALM, UTP, JIRA, Other Customer Specific

## KEY PROJECTS

LEAD/TEST ENGINEER	BANGALORE, INDIA - JUL 2019 to CURRENT
Role	Lead/Test Engineer
Client	Intel Mobile Communications, India
Project Summary	Working on Intel X Platform which comprises of Customer X Modem Platform and Intel Application Processor with Linux OS and Intel based Framework. My responsibilities include bringing up the Amarisoft Simulator for Testing the Intel Platform for Regression Activities of 5G (SA/NSA) and 4G (LTE).

Tools	ELT, Flash Tool, CLA (Intel Automation Framework), Jira, Network Simulators: Amarisoft Callbox Pro, R&S CMW500 Flex Unit, R&S CMX500, Keysight E7515B 5G Wireless Test Platform.
Responsibilities	<ul style="list-style-type: none"> <li>• Currently evaluating the Functional &amp; Throughput Tests for LTE, EN-DC &amp; 5G SA (FR1) Test Scenarios on Intel X Platform.</li> <li>• Debug the Issues observed on Intel Framework &amp; Modem Interface and cross validate the behavior of the Product.</li> <li>• Raise bugs for System Crashes/Functional Issues for both Customer &amp; Intel.</li> <li>• Creating new Test Scenarios &amp; Update the existing Test Plan.</li> <li>• Working together with External Test Equipment Vendors to Validate the Test Scenarios and Issues.</li> </ul>

<b>LEAD/TEST ENGINEER</b>	<b>BANGALORE, INDIA - APRIL 2019 to MAY 2020</b>
Role	Lead/Test Engineer
Client	Intel Mobile Communications, India
Features	Worked in Intel RB Team: Basic Functional Test Scenarios for different Carrier Operators on SSIM and MSIM (DSDS) Combinations for 2G/3G/4G Technologies. Accessing the different Remote Box and run the SSIM/MSIM Regression Testing in different regions of the World based.
Tools	STT, CLA (Automation Framework Intel specific), Congatech (Linux OS), Flash Tools, RF Calibration Tool.
Responsibilities	<ul style="list-style-type: none"> <li>• Regression for SSIM/MSIM Test Activities for different Operators/RAT (2G/3G/4G).</li> <li>• Regression for Livability Testing on MSIM Combinations.</li> <li>• Issue Analysis/Debugging, Creating UTP and responding to Developers appropriately.</li> <li>• Verification of UTP, Resolving the Issues in Automated Test Scripts.</li> <li>• Submitting the Test Results for Intel Management and Customer.</li> <li>• Responsible for managing the Test Regression activities for XMM7560 and XMM7420 (1.2 &amp; 1.3) Platforms from Remote Box perspective.</li> </ul>

<b>TEST ENGINEER</b>	<b>BANGALORE, INDIA - FEB 2018 to JUL 2018</b>
Role	Test Engineer
Client	Intel Mobile Communications, India
Project Summary	Worked in Intel Lab KPI Team: I was assigned in XMM7560 Project for MSIM Testing Activities for various RAT (2G/3G/4G) Combinations and evaluating KPI Performance for CS/PS Voice calls as well as Throughput (with/without Fading Profiles). All these Testing Scenarios were the Customer Requirements.
Tools	STT, R&S CMW500 Flex Unit, CMW MARS, PAT (Python Automation Test Framework), RF Calibration Tool, Crash Analyzer, Mobile Analyzer.
Responsibilities	<ul style="list-style-type: none"> <li>• Running the Weekly Regression on Main Line Builds, Bender Builds.</li> <li>• Raising bugs in UTP Portal, Log Analysis, Issue Reproduction.</li> <li>• Submitting the Results to the Intel Management.</li> <li>• Issue Reproduction for some Random UTP's.</li> </ul>

<b>TEST ENGINEER</b>	<b>MUNICH, GERMANY- JAN 2015 to JAN 2018</b>
Role	Test Engineer

Client	Intel Mobile Communications, GmbH (Munich)
Project Summary	Intel MFT & CNT Team: Participated in several Hardware Bring up activities for XMM7360/ICE7360, XMM7480/ICE7480, XMM7560/ICE7560 Platforms, Crash Inspect, Mobile Analyzer.
Tools	STT, Anritsu MD8480/MD8430 Signaling Testers (RTD Test Scenarios), Agilent8960, R&S CMW500 (flex), R&S CMU200, PAT (Python Automation Test Framework), RF Calibration Tool, Crash Inspect, Mobile Analyzer.
Responsibilities	<ul style="list-style-type: none"> <li>• Testing for HW Bring up Activities.</li> <li>• PRSVG Sanity Regression: Test Scope basic to advanced Scenarios in 2G/3G/4G constituting of Handovers/Reselection's. Regression Results are compared with previous Build daily Regression.</li> <li>• Regression for the Test Features of 3CA/4CA, LTE 256 QAM, Enhanced FACH, FE-FACH, DC-HSDPA, Dual Band DC-HSDPA.</li> <li>• Raising bugs in UTP Portal, Issue Reproduction, Log Analysis</li> <li>• Submitting the Results to the Intel Management.</li> </ul>

<b>DEVICE TEST ENGINEER</b>	<b>Basking Ridge, NJ – JAN 2014 to SEP 2014</b>
Role	Device Test Engineer
Client	Verizon Wireless, USA
Project Summary	Verizon Device Planning & Test Team: Updated the Verizon new/old Carrier Requirements, Test Plans from IBM Req Pro to HP ALM. Participated in the testing for the newly built Verizon Infra labs for Alcatel Lucent. Worked on NSB (Network Simulation Build) Tool external third-party tool required for Verizon for generating the Call Flows.
Tools	QXDM, HP ALM, NSB (Network Simulator Build Tool. Proprietary Tool used by Verizon), Alcatel Lucent Infrastructure.
Responsibilities	<ul style="list-style-type: none"> <li>• Generate the Call Flows using NSB as per Verizon specification.</li> <li>• Update the Carrier Requirements/Test Plans by taking the inputs from Verizon SME's</li> <li>• Whenever required participated in Testing the Vendor Platforms for SRLTE Throughput in Verizon Infra Lab.</li> </ul>

<b>SYSTEM TEST ENGINEER</b>	<b>SAN DIEGO, CA – JAN 2013 to DEC 2013</b>
Role	SYSTEM TEST ENGINEER
Client	BROADCOM, USA
Project Summary	System Test Team: I've worked on Modem Feature Testing for BCM21892 Platform. I've directly worked under two NAS Developers. Under their supervision I have developed and validated the Test Scenarios for LTE NAS Features: EPS Session Management-ESM, Service Request, Extended Service Request, Access class Barring (R8/R9/R10)
Tools	Anritsu MD8430/MD8480 Signaling Testers, Anite SAS Sequencer/Interactive, GEM Explore. Some other Broadcom proprietary Tools for Log Capturing and Automation Framework.
Responsibilities	<ul style="list-style-type: none"> <li>• Test Execution and Correction of Test Scripts for DSAC Feature.</li> <li>• Test Case Development, Regression of LTE NAS Features (ESM, Service Request, Extended Service Request, Access Class Barring).</li> </ul>

<b>IOT TRIALS ENGINEER</b>	<b>Bridgewater, NJ – Nov 2010 to Dec 2012</b>
Role	IOT Trials Engineer
Client	Samsung Telecommunications America, USA
Project Summary	Samsung Modem Team: Worked for the Commercialization of Samsung CMC220 and CMC221 LTE Modem Prototypes as well as Samsung Commercial Devices in Infra Labs (Alcatel Lucent, Ericsson, Verizon CPE Lab) from Verizon perspective. Samsung has a partnership with VIA to commercialize the Modem prototype for C2K Part
Tools	QXDM, XCAL, RMPC, ADB Tools on Android Operating system. Some other Diagnostic process to operate the Hardware.
Responsibilities	<ul style="list-style-type: none"> <li>• Test Execution/Issue Reporting in Alcatel Lucent Labs on Samsung Commercial devices (Droid Charge, Stratosphere, Galaxy Nexus Tablet) for Verizon Operator. <b>Test Features:</b> LTE Functional, IRAT Functional.</li> <li>• Also Participated in helping the External Commercial Network Vendors and Verizon personnel in Debugging the Issues for Test Execution or collecting the necessary logs.</li> <li>• Participated in the Verizon FIT (Field Interoperability Testing) in several locations along with Verizon Personnel.</li> <li>• For some brief time I was also involved in Field Testing for AT&amp;T Operator.</li> </ul>

<b>TEST ENGINEER</b>	<b>Seattle, WA – Mar 2010 to Oct 2010</b>
Role	Test Engineer
Client	Clearwire, US
Project Summary	User Acceptance Testing for Samsung Quattro Android Phone. Clearwire came in Partnership with Sprint to bring up this Smart Phone. Responsible for Testing the Phone as Modem Feature and Bluetooth
Tools	QXDM, XCAL, ADB Tools,
Responsibilities	<ul style="list-style-type: none"> <li>• Review the existing Test Plan and Enhance the Test Features for Bluetooth and Phone as Modem Test Features.</li> <li>• Got a chance to Test the Reference (HTC EVO 4G) Device to check the Phone as Modem from User Acceptance Test point of view.</li> </ul>

<b>PROJECT ENGINEER</b>	<b>Richardson, TX – Oct 2008 to Feb 2010</b>
Role	Project Engineer
Client	Nortel Networks, US
Project Summary	Network Integration/Verification/Drive Test Data Collection.
Tools	XCAL, XCAP
Responsibilities	<ul style="list-style-type: none"> <li>• Perform the Drive Testing for CDMA2000 1x, EVDO Rev A/B for the Operators: Sprint, Verizon, USCC</li> <li>• Daily Activities include the PN Sector Isolation/Verification, Handoff (Soft/ Softer/Hard), and E911 Verification for Individual Test Sites.</li> <li>• Apart from the above activity sometimes I used to collect the Drive Test Data for Sector Throughput.</li> <li>• Submitting the Results to the RF Engineer for validation.</li> </ul>

<b>PROJECT ENGINEER</b>	<b>Richardson, TX – Jan 2008 to Sep 2008</b>
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Role	Project Engineer
Client	Polaris, US
Project Summary	Collect the Drive Test Data for Polaris E911 Wireless Location Services. Data collected will be used to model the environment, map the RF Signatures and save the information into a Database.
Tools	XCAL, Andrew Invex3G Hardware, GSM Dual Band Phone, 850/1900 GSM BSIC Decoders.
Responsibilities	<ul style="list-style-type: none"> <li>Collect the Drive Test Data for efficient Calibration measurements for Polaris E911 Wireless Location Services.</li> <li>Set up, manage pre-Data Collection steps, execute calibration Drives (CALs &amp; MATS).</li> <li>Process the collected data files using Polaris Proprietary software Tools (FDQC and CRM).</li> </ul>

<b>ASSOCIATE RF ENGINEER</b>	
<b>Kansas City, KS – JAN 2007 to APR 2007</b>	
Role	Associate RF Engineer
Client	SPRINT, US
Project Summary	Drive Test Data collection for CDMA2000 1X.
Tools	Andrew Invex Tool
Responsibilities	<ul style="list-style-type: none"> <li>Collect the Drive Test Data for short Calls &amp; Long Calls for a predefined Route.</li> <li>Some specific Site Testing for Verification of Soft/softer Handoff and E911</li> </ul>

<b>ASSOCIATE RF ENGINEER</b>	
<b>Kansas City, KS – SEP 2006 to DEC 2006</b>	
Role	Associate RF Engineer
Client	Cingular (AT&T), US
Project Summary	Cingular (AT&T) Drive Test for UMTS for R99 and HSDPA (R5).
Tools	Agilent E6474, TEMS, Microsoft Streets & Trips Navigation Software
Responsibilities	<ul style="list-style-type: none"> <li>Performed Sector, Site, Cluster, and Market Drives using Agilent E6474 for UMTS Test Sites.</li> <li>Testing includes: Voice Calls, Ping Test, HSDPA FTP Test.</li> <li>Drive Test on Air Verification as well as Cluster Test using Ericsson TEM's Investigation</li> </ul>

## REFERENCES

Available upon Request