**Key Expertise:**

M.Tech with 3.5 Years of experience in Wireless testing. Worked on UMTS, LTE and WiMAX. Worked on Ue testing for LTE. Experience in RNC and Node-B testing for UMTS. Worked on AGW and BS for WiMAX.

**Experience Summary**

* Currently working as a Testing Engineer in Larsen & Toubro InfoTech Limited, Bangalore from July 2012 to till date.
* Worked as Telecom-Integration Engineer in ZTE Telecom India Private Limited, Bangalore from August 2010 to May 2012.

**Work Summary**

* Currently working in \_\_\_\_\_\_Project, \_\_. Field testing and specific functional of Power measurement and Throughput testing.
* Experience in Regression, KPI testing, Functional Focus testing for both Ue and Network side.
* Experience in Network side RNC and Node-B Testing, activities includes, Functional testing, Performance testing, Log analysis and Route cause analysis.
* Experience in Node-B Field Testing, activities includes Collecting Logs, Analyzing the Radio Parameters, testing the different scenarios and analyzing the logs for finding the cause of bugs.
* Wireless Protocols: Brief Knowledge on UMTS protocol stacks RRC, RLC, and MAC (3GPP rel-7) both UE side as well as on UTRAN side.
* Experience on WiMAX-802.16e. Good knowledge on RADIUS, AAA protocols.
* Good knowledge on IEEE 802.15.3a- UWB, Personal Area Network communications.
* Experience in Client Communication and Status Reporting. Worked in high pressure conditions.
* Good written and oral communication skills.

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| --- | --- |
| Domain | Telecom –Network side – Wireless Testing(UMTS, WiMAX) |
| Tools | Ue Side: Power measurement, RF calibration(R&S), STT, QXDM. |
| Tools /DB/Packages | CNT, CNA, Net-numen, RCT, LMT, Wireshark. |
| Programming/Simulation Tools | MATLAB, Opnet, Basic knowledge of NS2 |

**Skills**

**Project Details**

**Project 1:**

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| --- | --- | --- | --- |
| Project Name | IMC-Samsung SP7160 Project | Duration | July 2012 to Till date |
| Team Size | 40 people, On-going |
| Description | Field testing of predefined test cases to ensure the stability of the UE stack during the extended period of data transfer, various System configurations, multiple data sessions, network selection/attach/detach behavior. UE stack during the failures from Network. Basic log analysis for UE mal-function reporting. | | |
| Role & Contribution | Role : Testing Engineer  Contribution:   * Test planning for various Drive test & static test scenarios. * Perform Field Testing of multiple, multimode, Multi-RAT (2G, 3G, 4G) UE platforms. * Analysis of logs taken during Field Testing, identifying defects, rising tickets & follow up with them. * Perform verification of protocol stack in accordance with 3GPP standards. * Compliance verification as per Intel Mobile Communication design standards. * Conformance Testing as per Network Operator requirements | | |
| Technologies | UMTS-LTE | | |
| Tools | Mobile Analyzer, Crash Inspect, STT, IRTC, Wire shark, Connection Manager, Microsoft Network Monitor, Phone Tool. | | |

**Project 2:**

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| --- | --- | --- | --- |
| Project Name | UMTS RNC Testing and Log Analysis | Duration |  |
| Team Size | 12 |
| Description | Testing the 3G RNC that includes stress testing, Acceptance Testing, Functional Testing, Card Level Testing and Call trace Analysis | | |
| Role & Contribution | Role:  Telecom-Integration Engineer  Responsibilities:   * Testing RNC boards using Netnumen. * Software commissioning of Wireless Network elements (NodeB, RNC) and integration with related network elements. * To be responsible for resolving various UMTS and Voice call problems by taking trace and studying the protocols. * Good knowledge on RLC, MAC, PHY, NBAP, RANAP, RNSAP Protocols. * Maintaining the system issues database by using Oracle. * Diagnostics of hardware, software and fault Management as well as performance monitoring. * To be responsible for resolving various UMTS and Voice call problems by taking trace and studying the protocols. * To ensure the quality of UMTS RNC and to do routine & quarter inspection of all UMTS RNCs. * To maintain the system hardware & timely detection of hardware fault to ensure optimum utilization of the network resources and to increase the network uptime. | | |
| Technologies | UMTS , WCDMA and HSDPA | | |
| Tools | Netnumen, RCT, CNA , Wireshark | | |
| Key Achievements | Started testing of Protocol Messages from scratch. | | |

**Project 3:**

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| --- | --- | --- | --- |
| Project Name | SDR Node B Field Testing | Duration |  |
| Team Size | 10 |
| Description | Collecting the Node-B layer 2, Layer-3 messages of UMTS and its radio parameters using drive test tool TEMS to test the Node-B Performance. | | |
| Role& Contribution | Role: Telecom-Integration Engineer    Responsibilities:   * Collecting the downlink data in the field using a drive test tool TEMS to test the Node-B Performance. * Analyzing the collected data to check whether we are getting all the channels. * Analyzing the layer 2 and layer 3 protocol messages to check whether we are getting all the protocol messages. * Analyzing the collected data to check issues on handover failure, call drop, etc. * Reporting the collected bugs to the development team. | | |
| Technologies | WCDMA | | |
| Tools | TEMS, RCT, CNT and CNA | | |
| Key Achievements | Started testing of Protocol Messages from scratch. | | |

**Project 4:**

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| --- | --- | --- | --- |
| Project Name | Integrated BS Testing on WiMAX | Duration |  |
| Team Size | 9 |
| Description | Collecting the BS layer 2 messages of WiMAX and its radio parameters using drive test tool TEMS to test the BS performance. | | |
| Role& Contribution | Role:  Telecom-Integration Engineer  Responsibilities:   * Collecting the downlink data in the field using a drive test tool TEMS to test the BS performance. * Analyzing the layer 2 protocol messages to check whether we are getting all the protocol messages. * Analyzing the collected data to check issues on handover failure, Initial connection failure, etc. * Reporting the collected bugs to the development team. | | |
| Technologies | WiMAX | | |
| Tools | NetNumen-M31, CNT and CNA | | |
| Key Achievements | Received appreciation letter from Client for the Good work done. | | |

**Educational Qualification & Certifications**

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| M. Tech | Telecommunications from NIT, Calicut in 2010 |
| B.E | Electronics and communication, Completed in 2007 |