

PAWAN VERMA

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Career Objective

Looking for extensive work as a Telecom Testing Engineer where my professional knowledge in telecommunication protocol testing would enable me contributes positively towards the growth of the organization.

Summary

I have **3+ years'** experience as **Test engineer** in application and protocol Sector & **6.5+ years'** as **RF Engineer** in Telecom domains.

PROFILE SYNOPSIS

- UE side Testing (**Performance, Sanity, Functional, IMS Testing** as given in Test Plan) & Network side Testing under Conductive & Wireless Environment, From office and Field as well as.
- In Depth knowledge of LTE protocol stacks **RRC, RLC, PDCP, MAC**.
- Good knowledge of services and functions provided by each layer in **LTE protocol stack** (Both E-NodeB side and UE side).
- Also having knowledge of **LTE architecture** with all nodes like **E-NodeB, MME, S-GW, P-GW, HSS, PCRF** and its call flows.
- Having good knowledge on **LTE call Flows, Registration, Attach/Detach procedures, Handovers (Intra& Inter-RAT), SIBs, and MIB**.
- Working knowledge of test case execution including **Throughput, Handover, Reselections, RACH process, CSFB, VoWiFi, CA, DSDS, IMS, RAN, Rank Index, UE capability, PRACH Tx Power test Scenarios**.
- Having good knowledge in LTE Network Element Application Protocols **S1AP, X2AP**.
- Good understanding of **5G SA & NSA architecture** with their call flow.
- Having good knowledge of **NR architecture** with all nodes like **G-NodeB, AMF, SMF, UPF, UDM, NSSF, AUSF, PCF etc. and their call flows**.
- Good understanding of 5G Core components (**AUSF, AMF, SMF, UDM**).
- Good understanding about **IMS Registration**.
- Knowledge of **Log Capturing, Log Analysis, Issue Reproduce, Testing** and Review.

PRESENT EMPLOYER: -

Company	Client	Designation	Work Period
Marquis Technologies Pvt Ltd.	Reliance Jio	Test Engineer	Mar'23 to Present

Project-1: -Wonderland DNI(Android device testing)

Job Responsibilities

- Responsible for Testing of given **Test Cases** on Test Plan, almost 150 Test Cases is collected or checked in purpose of collecting logs on QXDM and ELT.
- Performs the testing on the devices having the QUALCUMM CHIPSET like **JIO PHONE 5G,, ONE PLUS11, IQOO 7 Pro , POCO X5 PRO**, using **QXDM Tool** and also FLASHING the devices using **QPST Tool**
- Performs the testing on the devices having the MEDIATEK CHIPSET like **REDMI K50i, M-80, M-85** etc. using **ELT Tool**.
- Performs the testing on the devices having the Shennon like **Samsung devices Like A14** using **Shennon Tool**.
- Taking on device log and analyze them using tools like **QXDM, QCAT, ELT** etc
- SA testing in which we perform **5G NR (SA)-Functional Testing, 5G NR (SA)-Performance Testing, 5G NR IMS Testing and 5G NR (SA)-DSDS**.
- Performed NR and IMS **Functional testing, Sanity, Functional, Testing** as given in Test Plans
- Log Analysis for the scenario like **NR Registration, LTE Registration, IMS Registration, VoWI-FI Registration and Emergency Call Registration** using **QXDM, QCAT** and **ELT Tools**
- Collecting logs on **QXDM, ELT, Wireshark**, and analysis with the help of **QXDM, Wireshark, QCAT, ELT** etc
- Finding the **functional/application issues, Debugging& testing** on tools like **QXDM, ELT, QCAT, PCAT, WIRESHARK** Responsible for Test case execution, Log Collection of failure/Issues.
- Flashing devices using tools like **QPST, QFIL**. Restoring, QCN backup of devices using the tool like **QPST**.

- Testing terminal features like **Cell Selection, Handover (Intra, Inter, IRAT etc), Cell Reselection (Intra, Inter, IRAT etc.)** in both NR & LTE.
- Testing of **EPSFB, VONR, VINR, VOLTE, Emergency, Vo Wi-Fi Call** using the tools and analyzing their call flows.
- Testing of **Call Hold, Call Unhold, Mute, Unmute, Conference Call, Call Forwarding** (Conditional, Unconditional).
- Performing **Downlink & Uplink Throughput Testing** in Good & Poor Coverage area.
- How UE Decoding of **PSS, SSS & PBCH** in LTE and decoding of **SSB in NR. SIB decoding** in both LTE & NR.
- Logs Analysis of NR like **RRC Setup, RRC Reconfiguration, RRC Reestablishment, RRC Reject, Registration Request, Registration Accept, PDU session establishment** procedure.
- **Attach success, Detach Success, CS Service Notification, Extended Service Request, UE Capability information, SIB, MIB, PHICH, PDCCH, PDSCH, PUCCH, PUSCH, Security mode command, RRC Connection Release, DRX Cycle**
- Performed **NR-VoNR End to End Testing** and **log analysis** for the failure causes.
- Involved in the **customer raised issues** and **reproduced the test** accordingly.

Project-2: -Wonderland DNI(Apple device testing)

- **Sanity, functional** testing & full scope testing of **iPhone& iWatch** devices
- Out of service shield box testing& test case execution & retesting issue.
- Performing RAN, service-based **handover, Cell Selection, Cell Reselection, Throughput, call performance, IMS, VoWiFi, CA & DSDS.**
- Mobility for issue retest & test case execution.
- Testing different chipset devices using diagnostic tools like **QXDM, QCAT, Atlas, Shennon, ELT, Wireshark .**
- Carry out Basic analysis to find possible issues using captured logs.

Technical Skills:

- **Operating System:** WINDOWS
- **Testing Tools-** QXDM, QPST, QFIL, QCAT, ELT, Atlas, WIRESHARK.
- **Technology:** LTE and 5G/NR

PREVIOUS EMPLOYER:

Company	Client	Designation	Work Period
Broadvision Consultant	Ericsson Global India Pvt Ltd	RAN Test Engineer	April'22 - Mar'23
Teleysia Network Pvt.Ltd.	Vodafone idea Ltd	RF Engineer	Apr'21 -april'22

Project-VIL project

Job Responsibilities

- Plan and executed Physical optimization strategies for 4G including antenna adjustments and power level optimization.
- KPI monitoring & KPI improving, Neighbor optimization, Cluster drive.
- Analyzed drive test log to identify reason for poor KPI's, such as RRC connection success rate, CSFB success rate, data drop rates and provide actionable recommendation.
- Optimized low DL throughput Cells through Inter or Intra load balancing CA and parameter adjustment.
- Reduce overshooting cell in cluster by optimization & improve coverage & quality of network.
- Troubleshoot areas with poor RF performance. Request drive tests, analyze data and recommend network changes as applicable.
- Make plan for capacity addition based on current site utilization.

- Overseeing and executing Drive test analysis of 2G & 4G coverage and quality, handover analysis and missing neighbor analysis

Used Tools- Mycom, Citrix

Company	Client	Designation	Work Period
DNGTelelink Pvt Ltd	Vodafone idea Ltd	RF Engineer	Nov'19 - Mar'21
Insta ICT Solution Pvt ltd	Vodafone idea Ltd	RF Engineer	Dec'18 - Nov'19
Wave Telecomm	Vodafone idea Ltd	RF Engineer	Apr'18 - Nov'18
Cellasia Infocom Pvt ltd	Idea Cellular Ltd	Drive Test Engineer	Aug-15 - Mar-18

Job Responsibilities:

- Project End to End Co-ordination (Customer Handling). Make plan for optimization based on KPIs and customer complaints.
- Manage and coordinate a team of drive test engineers.
- Overseeing and executing Drive test analysis of 2G & 4G coverage and quality, handover analysis and missing neighbor analysis
- Handling of Daily TSG Complaints.
- Make plan for optimization based on KPIs and customer complaints.
- Handling of Monthly Data QOS Activity
- Planning of indoor solution including IBS and New Site and Small cell as per Network.
- Solving out customer complain and also carrying out network survey.
- Report Making tools- Mycom, Citrix, Tems Discovery
- Data drive (2G, 3G & LTE) and prepared data drive reports.
- Prepare Report of OADT and IDT.

Technical Skills:

- **Operating System:** WINDOWS
- **Optimization tools-** Mycom, Citrix, TEMS
- **Planning Tool-**Mapinfo 11, Google Earth
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Professional Qualifications/Education:

- 2013 Bachelor of Engineering in Electronics and Communication from Shri Balaji Institute of Technology and Management, Betul (M.P.).
- 2009 12th from Gyandeep Higher Secondary School, Pathakhera, BETUL (MP).
- 2007 10th from Satpuda Higher Secondary School Ghodadongri, BETUL (MP).

Personal details:

Name : Pawan Verma

Father's Name : Mr. Naval Verma

Date of Birth : 9-Jan-1991

Address : At post Bhayawadi, BETUL(MP), 460440

Marital Status : Married

Language Fluency : English and Hindi.

Declaration: I hereby declare that the information given above is true to the best of my knowledge & belief.

Pawan Verma