

Vinay Kumar Patel
UE/Modem Test Engineer (LTE/NR)
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Career Objective

- **To obtain a position within an organization that will utilize my engineering education and experience, while presenting new work challenges and continuous learning opportunities.**

Professional Summary:

- **UE/Modem Test Engineer with 8+ years of total experience in Telecom domain, including 3+ years in UE/Modem testing & protocol analysis and 5+ years in RF, Drive Test, Coordinator and Report Maker.**
- **Manual and Automation Mobile Testing on Android platform embedded with QUALCOMM & MediaTek Prototype devices (Chipset).**
- **Hands-on experience in LTE/5G NR device validation, KPI analysis, log debugging, and end-to-end call/data performance testing on live networks.**
- **Good understanding of RRC, NAS, IMS call flows, and modem validation on Qualcomm platforms.**
- **Experience in performance related test case such as Call, SMS, Data, HO, PLMN search, OOS & Power UP acquisition to check mobile (UI) behavior in live network.**
- **Basic knowledge on EPC.**
- **Expertise in managing DT teams, planning test activities, tracking progress, and delivering high-quality reports to internal teams and clients.**
- **Skilled in route planning, log analysis, KPI evaluation (RSRP, RSRQ, SINR, Throughput, Handover), and preparation of detailed DT reports.**

TECHNICAL SKILLS:

- **Technologies:** LTE, 5G NR (NSA/SA), VoLTE, VoNR, VoWiFi, UMTS & GSM
- **Protocols:** NAS, RRC, PDCP, RLC, MAC, PHY
- **Telecom Tools:** QXDM, QCAT/PCAT, QMAT, FTS, Putty, TEMS, Nemo Analyzer, AZQ
- **Flashing tools:** PCAT, QFIL etc.
- **Chipsets:** Qualcomm, MediaTek (Prototype & Commercial Devices)
- **Testing Types:** Functional, Sanity, Regression, Stability, KPI & Throughput Testing
- **Other Skills:** Log Analysis, Defect Tracking, Report Preparation, Client Coordination

Summary of Work Experience: (Start with current employer)

1. Marquis Technologies (Client Name: Qualcomm India Pvt Ltd)

Role- Test Engineer | Nov 2022 – Present

Location- Mumbai

Project: LTE/5G NR UE Modem Validation, Functional & KPI Testing

- Performed UE modem validation for LTE & 5G NR devices on live operator networks.
- Device preparation including flashing latest builds, loading IMEI, QCN, MBN, MPSS.
- Executed functional, sanity, regression, and KPI test cases.
- Conducted stationary and mobility testing (Attach, RRC transitions, HO, reselection).
- Validated MO/MT calls, CSFB, VoLTE, VoNR, data throughput & latency.
- Tested multi-SIM scenarios (SA+SA, SA+NSA, NR+LTE combinations).
- Collected and analyzed logs using QXDM to debug protocol and performance issues.
- Managed defect reporting, test execution reports, and client communication.

2. Vedang Cellular Services Pvt. Ltd. (Client: Ericsson India Pvt. Ltd.)

Role- Post Processing Engineer (Report Maker) | Feb 2021 – Oct 2022

Location- Noida (Delhi)

- Performed **log post-processing and KPI analysis** using Nemo Analyzer and AZQ.
- Generated **daily/weekly performance reports** for LTE networks.
- Analyzed throughput, call drop and handover.
- Supported optimization teams with insights from drive test analysis.
- Clarification of issues and re-drive planning.
- DT log validation, quality checks & Before–After comparison reports.

3. Reecomps Teleservices Pvt. Ltd. (Client: Nokia Solutions Pvt. Ltd.)

Role- DT Engineer & Coordinator | Oct 2017 – Jan 2021

Location- Mumbai

- Executed **drive tests (SCFT, Cluster Drive)** for GSM/UMTS/LTE networks.
- Analyzed coverage, quality, interference, and mobility issues using TEMS.
- Supported **network optimization and acceptance testing** activities.
- Coordinated daily **Drive Test activities** for LTE/5G/2G networks across multiple clusters.
- Reviewed DT logs and performed **first-level analysis** for KPI issues (RSRP, RSRQ, SINR, Throughput, HO failures).

4. Vedang Cellular Services Pvt. Ltd. (Client: Nokia Solutions Pvt. Ltd.)

Role- Customer Complaint Engineer | Feb 2017 – Oct 2017

Location- Mumbai

- Handled **network-related customer complaints** for LTE/VoLTE/2G services, ensuring timely resolution.
- Investigated and resolved **customer complaints** related to call drops and data issues.
- Coordinated with **RF optimization and NOC Team** for corrective actions.
- Prepared **RCA (Root Cause Analysis) reports** and shared observations with internal teams and clients.

EDUCATION

Bachelor of Engineering (Electronics & Communication Engineering)

Sri Satya Sai Institute of Science & Technology, Sehore (RGPV, Bhopal)

Year: 2013 | Aggregate: 70.5%

Personal Details:

- **Employee Name** : Vinay Kumar Patel
- **Date of Birth** : 10th Aug 1990
- **Marital Status** : Married
- **Sex** : Male
- **Nationality** : Indian
- **Language Known** : Hindi, English
- **Address** : Village- Sisirata Tola, P.O.- Sisirata, P.S.- Nokha,
Dist.-Rohtas, Bihar- 802217

DECLARATION

I hereby declare that the above information is true and correct to the best of my knowledge.

Vinay Kumar Patel

Place: Mumbai