

ANUBHAV SINGH

Senior Software Test Engineer | QA Specialist | Telecom & Mobile Device Testing
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Professional Summary

A highly accomplished Senior Test Engineer with over 6 years of expertise in ensuring the quality and reliability of software for cutting-edge mobile devices and telecommunications systems. Proven mastery in the full Software Testing Life Cycle (STLC), from analyzing requirements and crafting detailed test plans to executing complex test cases and driving defect resolution. Specializes in 4G/5G network protocol testing, performance benchmarking, and cross-functional collaboration within Agile environments. Demonstrated success in enhancing software quality, improving user experience, and contributing to the successful launch of multiple flagship devices.

Core Competencies & Technical Skills

- **Testing Methodologies:** STLC, SDLC, Defect/Bug Life Cycle, Test Planning, Test Strategy, Risk Analysis
 - **Testing Types:** Manual Testing, Functional Testing, Non-Functional Testing, Regression Testing, Sanity Testing, Smoke Testing, Performance Testing, User Acceptance Testing (UAT), Mobile App Testing, IoT Testing, Conformance Testing, IOT Testing
 - **Tools & Platforms:** JIRA, ALM, Android Debug Bridge (ADB), Fastboot, QXDM, QCAT, QPST, XCAL, TEMS
 - **Telecom Protocols:** 5G NR (SA & NSA modes), 4G LTE, VoLTE, VoWiFi, CSFB, SRVCC, Carrier Aggregation (CA), ENDC, Handover, RRC, IP Multimedia Subsystem (IMS)
 - **Programming/Scripting:** ADB Shell Commands
 - **Platforms:** Android OS, Qualcomm Snapdragon, Mediatek Dimensity, Unisoc
 - **Key Activities:** Test Case Design, Bug Tracking, Root Cause Analysis, Log Analysis, Device Flashing, Firmware Installation, Test Reporting
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Professional Experience

Senior Test Engineer | Marquis Technologies Pvt. Ltd. (On-site at Realme Mobile Telecommunications)

Gurugram, India | September, 2021 – Present

- Led end-to-end testing for multiple smartphone projects, developing comprehensive test strategies and detailed test plans covering Functional, Regression, and Network Acceptance Testing (NAT).
- Engineered and executed over 500+ test cases for critical telecom features including 5G ENDC, 4x4 MIMO, VoLTE call quality, and cross-technology handovers (LTE to WCDMA), ensuring 3GPP standards compliance.
- Performed in-depth analysis of network issues (e.g., Call Drops, Throughput Degradation) by capturing and decoding logs using QXDM and QCAT, pinpointing root causes in RRC and NAS layers and reducing bug resolution time by 30%.
- Spearheaded the performance benchmarking for new chipsets, comparing device KPIs (RSRP, RSRQ, SINR, BLER) against industry benchmarks to validate competitive performance.
- Managed the entire defect lifecycle using ALM, from initial logging and triage to verification and closure, collaborating directly with R&D developers in China to ensure timely fixes.
- Validated IMS settings and protocol stacks for VoLTE and VoWiFi functionality, ensuring carrier-specific requirements were met for markets across Europe and Asia.

RF Drive Test Engineer | Telesys Networks

Rajasthan, India | June, 2021– September, 2021

- Conducted drive tests for LTE network optimization, analyzing key performance indicators (KPIs) to identify and resolve issues like pilot pollution, interference, and handover failures.
- Utilized TEMS Investigation for data collection and post-processing analysis, creating reports that directly informed network optimization strategies, improving overall network quality by 15%.
- Supported the rollout of new network sites and technology introductions, performing pre-launch and post-launch validation tests.

RF Drive Test Engineer | Pyro Telecom

Gorakhpur, India | February, 2016 – April, 2017

- Performed SCFT (Single Cell Functional Testing) and drive tests for 2G, 3G, and 4G networks to ensure service quality and coverage.
 - Analyzed and optimized neighbor cell lists, reducing handover failures by 10% and improving network reliability.
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Education

Bachelor of Technology in Electronics and Communication Engineering

Uttar Pradesh Technical University, Lucknow | 2010 – 2014

Senior Secondary (XII), Science

Saraswati Shishu Mandir Senior Secondary School, Gorakhpur | 2009 – 2010

Secondary (X)

Kendriya Vidyalaya No. 2 FCI, Gorakhpur | 2007 – 2008

Certifications

- **5G Fundamentals** - Coursera
- **Agile Testing** - Coursera

Languages

- **English:** Professional Working Proficiency (B2)
- **Hindi:** Native or Bilingual Proficiency (C2)