

# Abhigyan Joshi

## B.E in Electronics & Comm. Engineering

Nationality: Indian  
Gender: Male

Email: abhigyanjoshi@gmail.com

Mobile: +91 9582341019

WhatsApp: +91 9582341019

<https://www.linkedin.com/in/abhigyanjoshi/>

<https://patents.justia.com/inventor/abhigyan-joshi>

[Stanford Lead - Stanford University Graduate School of Business](#)

### SUMMARY:

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I have 17+ Year of Wireless QA & AI based Automation Experience - With a blend of Google, Apple, Qualcomm, Ericsson & Alcatel-Lucent NR, LTE & WCDMA Products, worked mainly into Program Planning, Budget Planning, Program Strategy Planning, Risk assessment & management, Product Commercialization, System Integration & verification, SOC bring up & Customer Engineering globally with different Carrier's, OEM's, ODM's & Infra vendor Partners. AI/ML Integration for Automation, predictive diagnostics, anomaly detection for data-driven QA at scale

### TOOLS & TECHNOLOGY:

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**DOMAIN:** 5G NR-NSA/SA, SUB-6, mm-Wave, DSS, LTE-FDD/TDD, LTE CAT-M, VOLTE, UMTS, HSPA+

**PLATFORM:** Qualcomm Test Base Station, 5G Keysight UXM, Anritsu 5G MT8000A, 8480, 8430, 8470/8475 Qualcomm UE SDX50, SDX55, 8974, 9625, 9630, 9206 Chipset Modem, Ericsson RNC 3810, 3820, Evo 8200, RBS3000, RBS6000, Alcatel-Lucent RNC 9370 Node-B, EnodeB & RNC.

**PROTOCOLS WORKED ON:** NAS, RRC, RLC, MAC, S1AP, X2AP, GTP, RTP, S3, TCP, UDP, FP, NBAP, ALCAP, RANAP, SCTP, SCCP, M3UA, AAL2, AAL5

**OPERATING SYSTEM:** Windows, Linux

**DEVELOPMENT/ANALYSIS TOOLS:** QXDM, QCAT, QMI Test Pro, Agilent, JDSU, Spirent, OMCB, RFSIM (Attenuator), Quality Centre, DCT (ClearQuest), GIT, GERITT version Control.

**CONFIGURATION MANAGEMENT TOOLS:** ALU WIPS, WNMS, Ericsson MO shell, Decoder, WINFIOL, Element Manager, OSS-RC, Test Base Station Config Editor, ASN1VE Encoder/Decoder, Rapid Test Designer, Smart Studio, Keysight PRT/iPRT

**TEST PROBE EQUIPMENT:** Wireshark, Net hawk Analyser, Tektronics Protocol Analyzer, Ericsson LTE log tool, Anritsu MD8480C W-CDMA Signaling Tester, R&S CMW500 Protocol Tester, TEMS, MapInfo, LTE Wavejudge Sanjole, Rohde & Schwarz SMW 200 LTE Signal Generator








**SPECIFICATION:** TS 38.331 TS 38.211 TS 36.331, TS 36.211, TS 36.213, TS36.321, TS 36.413, TS36.423

**OS/SCRIPTING:** Perl, Python & Data Serialization Format like Json Schema & YAML for Automation.

**AI PLATFORM/CLOUD:** Gemini, ChatGPT, DeepSeek, HuggingFace (Pipeline, Transformer), Langchain, FAISS, PyTorch, AI Studio, Vertex AI, Docker, VC code, Codex,

### EMPLOYMENT DETAILS:

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 <b>Google UK</b>	Senior Technical Program Manager (2/2023-till)
 <b>Apple Inc. (UK/India)</b>	Cellular Systems Engineer (8/2020-2/2023)
 <b>Qualcomm Inc. (UK/India)</b>	Senior Lead Engineer (4/2015 - 8/2020)
 <b>Alcatel-Lucent Wireless R&amp;D</b>	Senior Technical Lead (6/2014 - 4/2015)
 <b>Ericsson India Global Service Pvt Ltd</b>	Senior Engineer (1/2011 - 06/2014)
 <b>Alcatel Lucent India Ltd. (Consultant)</b>	UTRAN Engineer (01/2010 - 1/2011)
 <b>Ericsson India private limited (Consultant)</b>	RF Engineer (10/2008 - 01/2010)

### EDUCATION:

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2004-2008 Bachelor of Engineering in Electronics & communication Engineering (RGPV University)

2024-2026 STANFORD LEAD - Executive Program in Business Management & Leadership

Currently completing the Stanford LEAD Executive Program (2024-2025) to amplify executive decision-making and innovation leadership for Strategic Thinking, Business Model Design, Disruptive Innovation, Decision Science, AI Ethics

Critical Analytical Thinking	Strategic Leadership	Business Model Analysis and Design	Design for Disruption	Decision Making
Financing Innovation: The Creation of Value	Building Power to Lead	A New Type of Leader: Anchored on Purpose Fueled by Humor	Design Thinking: From Insights to Viability	Values-Based Leadership

## PATENT'S:

- Traffic Offloading for a Communication Drone – US15/730,012
- Multi-SIM Switchover & Alerting – India 202241041214
- Anonymous Geo-Sync Node Discovery – US15/455,679
- Handling Non-Active SIMs in DSDS – US18/746,417

## PROJECT EXPERIENCE'S:

- Pixel device QA, Launch Readiness & Product commercialization Carrier Lead

**Organization:** Google (UK)

**Domain:** TDD/FDD NR-NSA/SA for Sub-6 & mmW MSIM , MSIM Mobility

**Platform:** Pixel Phones, Watches

**Period:** Feb 2023 – Till date

**Role:** Currently involved in end to end device product QA for the EMEA region along with carrier deliveries , Compliance matrix, Feature deliveries and alignment within the region for all In-market , NPI & wearable products.

**Key Responsibilities:**

- Led AI-enabled product QA and feature commercialization for Pixel devices across EMEA.
- ML-driven automation initiatives improving efficiency by 30% towards OKR's.
- Led transformation of QA strategy with predictive data insights and cross-regional program planning, strategy and closure .
- Built AI/ML-based analysis tools with taxonomy generation for logs and test automation pipelines, reducing cycle time , enhancing defect prediction & Bug count across multiple programs.
- Building Test strategies with Engineering TL's for test flow automation towards Agentic system via different Automation component & agents integration for test efficiency gain and integration plan for check points for functional features towards Continuous integration and continuous delivery.

- Modem Functional Test & Carrier Technologies

**Organization:** Apple Inc. (UK/India)

**Domain:** TDD/FDD NR-NSA/SA for Sub-6 & mmW MSIM , MSIM Mobility

**Platform:** Keysight UXM-5G, Anritsu 5G MT8000A Smart Studio NR ,8480,8430 RTD ,8475A Smart Studio

**Tools:** QXDM, QCAT

**Period:** Aug 2020 – Feb 2023

**Role:** Involved in 5G New Radio Sub-6/mm-Wave Functional, MSIM & Automation DRI for Product.

Developing test strategies, lab plans & System Design reviews for upcoming features in new Apple Products like iPhone, iPad & Watches including new feature testing and Leading automation campaigns for new IOS releases.

- Requirement gathering
- Overseeing the architecture definition efforts
- Tracking the design and development of work packages
- Features bring-up in a step-by-step manner by defining a clear anatomy
- Verification activities including Functional testing against simulators, NV-IOT, IOT, Field Trial's and KPI tests
- Customer ramp-up and race to zero defects
- Leading the customer launch and post-launch phases towards software updates

- 5G Device Carrier Certification , Technology Trials & Commercialization(EMEA)

**Organization:** Qualcomm Technologies International Ltd. UK

**Domain:** TDD/FDD NR-NSA/SA for Sub-6 & mmW

**Platform:** Qualcomm MTP SM8150, SDX50M, SDX55, CPE, Qualcomm 5G TBS, Keysight UXM-5G Simulator

**Tools:** QXDM, QCAT, APEX, CDM, QPST, Sanjole Wave Judge, R&S SMW 300, SM8150, SDX50, SDX55

**Period:** April 2019 – Aug 2020

**Role:** Involved in 5G New Radio Sub-6/mm-Wave IoT testing with different infra vendor, Carrier lab trials, bring-up activities with OEM/ODM, TAM role for OEM, Device certification, TA blocker Escalation & Feature Trials for Dynamic Spectrum Sharing\SA\Slicing, Technical Acceptance & Commercialization.

- Supported 1st DSS trial in Vodafone Germany & Netherlands with Ericsson & Huawei
- Supported 1st SA slicing trial in VDF UK

- **Qualcomm Test Base Station System Integration Testing, Continuous integration & Customer Engineering.**

**Organization:** Qualcomm India Pvt Ltd.

**Domain:** LTE, NR-NSA

**Platform:** Qualcomm Test Base Station (SgNB, MeNB, CN, MME, GW, NodeB, RNC & IWF), IMS call Emulator (ICE Server), WILD Panda (RF Emulator), MTP 8998,9206,8150,8953

**Tools:** QXDM, QCAT, APEX, CDM, QPST, Sanjole Wave Judge, R&S SMW 300

**Period:** April 2015 – April 2019

**Role:** System Integration Testing, System Test Planning, Customer Engineering, Continuous integration Automation & Radio Network Consulting based on Carrier OTA messages & Triaging Field issue & supporting Internal test team's on Qualcomm's Test base station emulator an autonomous Protocol Tester for Network Emulation, Worked for feature Integration, End to End Test Planning/Execution mostly for Radio stack & Issue debugging for technology areas like NR-NSA for Option 3X & 3A, 4-CA, CAT-M (FeMTC, CEmodeB), SRS Carrier switching, FD-MIMO, L2 latency reduction, eCA, LAA, eMBMS, SRVCC with mid-call, PSHO, IRAT Mobility Handover, Redirection, Partial Bearer Mappings, CSFB, VOLTE, IMS, MIMO, Carrier Aggregation & other LTE scenarios.

- **Alcatel-Lucent Node-B, Enode-B & RNC Control/User Plane testing**

**Organization:** Alcatel-Lucent

**Domain:** UMTS, LTE

**Platform:** Alcatel Lucent RNC, Node-B, EnodeB, Qualcomm 9625, 8974, 9630 UE

**Role:** EFACH, DBDC, 3C, DC-UL & LTE interoperability feature testing

End to End System Testing for HSPA+ Release 9 and 10 Features like DB-DC, 3C and DC-UL, Interoperability Feature for WCDMA - LTE RAN (PLMN Based Redirection from UTRAN to LTE).

- **Tier-2 Product Support to Ericsson Global customer base across the World in RAN troubleshooting for WCDMA and LTE field issues.**

**Organization:** Ericsson India (Tier-2 team GSC India)

**Domain:** UMTS & LTE

**Tools:** Moshell & Its decoders, Primus, Metis, MHWEB, ALEX, ITK, CSR TTK, LTE log Tool.

**Role:**

- Product Support to Ericsson Global customer base across the world in RAN troubleshooting for WCDMA and LTE issue's
- Work with PLM/PDU on escalated CSR/ TaskForce/TR's
- Support for Customer activities for migrations, Software Upgrades, Feature testing (FFI First Feature Implementation), FOA (First Office Application), FNI (First Node Implementation) and SWDP (Software Deployment).

Short-Term Assignment to Ericsson Product Line maintenance Kista Sweden

**Organization:** Ericsson AB Stockholm

**Scope of Work:**

- Worked on escalated PLM CSR on different issue like KPI degradation issue, product related faults, I&V testing, manual testing and Automation testing etc.
- Features Testing in PLM LAB with 3GSIM simulator, different UE's and different simulated nodes.
- TR reproduction in PLM lab.

### Short-Term Assignment to Ericsson Bahrain

**Organization:** Ericsson Bahrain

**Scope of Work:**

- Integrated Ericsson EVO 8200 RNC for swap from Nokia to Ericsson.
- RNC and RBS FNI for RAN Rollout and Swap
- LTE ENodeB FNI with MME for Ericsson L-RAN Rollout
- IPRAN implementation for SRAN.
- Multi-vendor Mobility Testing between Ericsson & NSN for different Handover Scenario (CNHHO, IRAT etc)
- CSFB, WCDMA Session continuity Implementation and Different Interoperability features between Ericsson and Nokia for CRAT
- MME in Pool Implementation and testing on ENodeB and SSGN and MSS in pool Implementation and testing in RNC.
- LBS implementation and testing on EVO RNC.

## Technical Training & Achievement's:

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### TRAINING:

- WCDMA RAN functionality in Ericsson Academy
- WCDMA AIR interface in Ericsson Academy
- WCDMA RAN configuration in Ericsson Academy
- WCDMA RAN Interface procedure and Protocol in Ericsson Academy
- LTE Release 8/9 Technical Overview in Qualcomm Wireless Academy
- LTE Release 8/9 Call Processing in Qualcomm Wireless Academy
- LTE Release 8/9 Air Interface in Qualcomm Wireless Academy
- LTE Troubleshooting & Performance Workshop in Qualcomm Wireless Academy
- LTE Network Planning: Capacity Planning Workshop in Qualcomm Wireless Academy
- 5G Network Architecture training in Qualcomm Wireless Academy
- 5G NR Air interface training in Qualcomm Wireless Academy
- 5G NR call processing training in Qualcomm Wireless Academy
- 5G NR Log Analysis workshop in Qualcomm Wireless Academy

### ACHIEVEMENT:

- Qual Star Ruby Award for very fast ramp-up and effective contribution in NSA Test planning and test execution.
- QualStar Ruby Award for Atlas RUMI Integration to Achieve full stack data call before Pre-Silicone Phase.
- QualStar Diamond Award for accomplishment of peak throughput on CentOS-BoaApps test and excellent contribution for IRAT support.
- Awarded with Ericsson Rocks Star Award (ACE Award) for Q3 2012.
- Awarded with "Best Employee Award 2012" in RAN Support.
- BUGS Certified Experienced Support Engineer.
- On Spot Award for providing Excellent Support during the Sochi Winter Olympics.