

# NEERAJ KUMAR SHARMA

Hardware Test Engineer | RF & 5G Wireless Systems

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## PROFESSIONAL SUMMARY

Results-driven Hardware Test Engineer with 4+ years of experience in RF testing, hardware validation, and system-level troubleshooting of 4G LTE and 5G NR Remote Radio Units (RRUs). Proven expertise in utilizing Keysight software, spectrum analyzers, VNAs, and signal generators to ensure product quality and compliance with Nokia quality standards. Skilled in C++, Python, and networking protocols (TCP/IP, OSPF, BGP). Certified in CCNA networking. Eager to leverage hands-on telecom hardware experience to contribute to cutting-edge 5G wireless communication products.

## CORE COMPETENCIES

RF Testing & Validation	4G LTE / 5G NR Systems	Hardware Troubleshooting
Spectrum Analyzers / VNAs	Root Cause Analysis	Circuit Calibration & Debugging
C++ / Python Programming	TCP/IP / OSI / OSPF / BGP	Test Report Documentation
Keysight Software Suite	Nagios / Putty / SSH / Linux	Transceiver Chain Verification

## PROFESSIONAL EXPERIENCE

### Hardware Test Engineer

September 2021 – January 2026

Nokia Solutions & Networks Pvt. Ltd., Gurgaon, India | Nokia AirScale 4G LTE | Nokia Galaxy 5G & NR 5G RRU

- Executed RF, functional, and system-level testing of Nokia AirScale 4G LTE and 5G Galaxy Module Remote Radio Units (RRUs), ensuring compliance with Nokia quality standards prior to commercial network deployment.
- Utilized Keysight software, spectrum analyzers, signal generators, Vector Network Analyzers (VNAs), and digital multimeters to perform hardware validation and troubleshooting.
- Performed root cause analysis (RCA) to identify and resolve RF performance issues and hardware faults, directly improving product reliability and reducing defect escape rate.
- Conducted calibration, verification, and debugging of RF components, transceiver chains, and electronic circuits, maintaining rigorous adherence to technical specifications.
- Collaborated cross-functionally with hardware and software engineering teams to resolve complex system-level hardware issues and optimize product performance before commercial release.
- Generated comprehensive test reports, documented technical findings, and supported continuous process improvements to increase test efficiency and throughput.
- Applied knowledge of C++ and Python scripting to support test automation and data analysis workflows during hardware validation cycles.

## CERTIFICATIONS

### CCNA – Cisco Certified Network Associate

Network Bulls Institute

Core topics: TCP/IP, OSI Model, Subnetting, Static & Dynamic Routing (RIP, EIGRP, OSPF, Basic BGP), VLANs, STP, VTP, EtherChannel, LAN/WAN & Multilayer Switching, DNS, DHCP, Cisco IOS, Windows.

## TECHNICAL SKILLS

RF & Test Equipment:	Spectrum Analyzers, Signal Generators, VNAs, Multimeters, Keysight Suite
Wireless Technologies:	4G LTE, 5G NR, Remote Radio Units (RRU), RAN, Nokia AirScale, Nokia Galaxy 5G
Programming Languages:	C++, Python
Networking Protocols:	TCP/IP, OSI Model, OSPF, BGP, RIP, EIGRP, VLAN, STP, VTP, DNS, DHCP, NAT
Tools & Platforms:	Nagios, Putty, SSH, Basic Linux, Network Monitoring Tools, Cisco IOS, Windows

## EDUCATION

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**B.Tech – Electronics & Communication Engineering**

2019

A.P.J. Abdul Kalam Technical University, Lucknow, UP | 68%

**Intermediate (Class XII)**

2015

N.E. Railway Boy's Inter College, Gorakhpur, UP | 67%

**High School (Class X)**

2013

N.E. Railway Boy's Inter College, Gorakhpur, UP | 74%

## LANGUAGES

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English (Professional Proficiency) | Hindi (Native)