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| **Pankaj Sharma**  *Email:* [*inboxforsharma@gmail.com*](mailto:inboxforsharma@gmail.com)  *Contact: +1-2143770462 ; +91-701-899-8924*  *Linkedin:* [*https://linkedin.com/in/inboxforsharma*](https://linkedin.com/in/inboxforsharma)  *Github: https://github.com/rustyongithub*  Global experience in Cellular networks and cutting-edge telecommunications 5G, NBIoT, LTE, CDMA, EvDO technologies as RF Engineer. More than 10 years of experience in 2G/3G/4G/5G RAN design, integration, and optimization across major U.S. carriers (T-Mobile, Verizon, Sprint, AT&T and Cricket Wireless). Experience in best practices across RAN deployment, spectrum re-farming, automation, verification, root cause analysis, process efficiencies and stakeholder communications. Skilled in delivering large-scale rollouts and technology modernisation projects. I am seeking a job role in RF Engineering and operations. | |
| **CORE COMPETENCIES**   |  |  | | --- | --- | | Networks Operations | Service Delivery Lead | | Networks Integration | Networks Optimization | | Networks Maintenance | RAN Configuration | | Regulatory Compliance | LTE Networks Design | | Networks Management | Small Cells Launch |   **TECHNICAL SKILLS**   * **Software Utilities & Tools:** MapInfo, TEMS ver. 11.0.4, XCAL, DataPro, PacketTracer4.0, HFSS-Ansoft, Spectrum Analyzer, AMOS, IAR-workbench for TI-MSP 430, Dreamweaver, C++, MATLAB, Simulink, TEMS, XCAL, MS-Excel, TCP Optimizer, Wireshark, DRTCP, IPERF, Kubernetes, Docker, Agile * **Operating System**: DOS, Linux(Ubuntu), Windows * **Computer Networking:** TCP/IP, UDP, FTP, CSMA, Juniper & Cisco devices configuration   **EDUCATION**   * **2010:** M.S (Electrical Engineering) from Michigan Technological University, Michigan, USA * **2008:** B.E(Electronics and Communications) from RJIT, Madhya Pradesh, India | **PROFILE SUMMARY**   * Possess in-depth, hands-on expertise across the complete air-interface and wireless protocol stack, including NAS, RRC, PDCP, RLC, MAC, and PHY layers as RF Engineer * Led and executed complex integration initiatives, 5G services readiness and seamless lab operations with extensive experience working on Ericsson infrastructure. * Spearheaded LTE performance analysis through comprehensive evaluation of key KPIs such as Accessibility, Retainability, Handover Success Rate (HOSR), RSSI, SINR, and DL/UL throughput. * Supported Rehome and Migration activities, modernisation and analysis of CDMA/EVDO networks, including troubleshooting of service blocks and call drops, neighbour optimization, Ec/Io assessments, power balancing, antenna tilt optimization, PCI/PN planning, and paging zone configuration. * Played a pivotal role in capability development by training and mentoring teams, contributing to the successful establishment of a Global Service Centre focused on CDMA and LTE operational excellence in India. * Extensive functional knowledge with major telecom operators including T-Mobile, AT&T, Verizon, Sprint, Cricket Wireless, MTN (South Africa), and US Cellular. * **Service Delivery Lead**: Experienced in leading service delivery operations, ensuring **SLA and KPI adherence** across network projects by managing multi-tier support teams (L1–L3) and implementing service improvement initiatives, participated in change request process. * Operational Services: Delivered a capacity solution for Super Bowl Game event, MN. * **Vendor & Supplier Coordination**; experienced in **coordinating with vendors and suppliers to complete the requirements of new projects, managing relationships with telecommunication carriers and technology vendors**, ensuring timely resolution of chronic network issues and managing procurement processes, ensuring timely delivery of services. * **E**xperienced in **mentoring a team of network engineers, providing guidance and support for technical project management objectives and process development, conducting training sessions** and **provide technical assistance for issue resolution and fostering a culture** of continuous learning and improvement.   **CERTIFICATIONS**   * Certified SAFe® Scrum Master * RF Fundamentals for Public Safety Networks * iBwave 5G NR Design * ESD Awareness for Test Environments * Radio Frequency Training * EriSite: How to complete a branching decision in UX * Heart saver CPR & AED * LTE Air Interface and Protocols & Procedures |
| **WORK EXPERIENCE**  **2022- Present: Saion Solutions Inc., Texas as Systems & Programming Engineer**   * Initiated and led high-level client engagements to deeply understand stakeholder objectives, operational challenges, and comprehensive project requirements. * Cultivated and sustained strong relationships with key stakeholders, establishing a foundation of trust, transparency, and collaborative communication. * Developed strategically aligned project proposal, clearly articulating the methodology, key deliverables, and execution timeline. * Delivered in-depth technical briefings and solution demonstrations to substantiate the proposed approach, illustrating both its feasibility and long-term value. * Collaborated with cross-functional leadership across engineering, business, and operations to ensure the proposal addressed all technical intricacies and business imperatives. * Elevated delivery standards by leveraging customer feedback, and benchmarking against industry best practices. * Managed high-priority escalations by collaborating with cross-functional teams and vendors, ensuring rapid resolution within regulatory and risk management. * Delivered on **communication management objectives** by delivering data-driven insights, proactive service management, and maintaining transparency through consistent reporting and reviews.   **2011-2020, Plano, Texas, USA:** **Ericsson RF Engineer**   * Provided executive oversight for the buildout of the 5G Open Innovation Lab, representing one of 17 strategic industry partners in a high-profile collaborative initiative. * Directed end-to-end integration, configuration, and troubleshooting activities, as well as Test Object List (TOL) planning to support seamless deployment and validation. * Led the integration and commissioning of Central Units (CU) and Distributed Units (DU), ensuring robust system performance and alignment with evolving **5G standards.** * Delivered ongoing operations and maintenance leadership, including site readiness assessments, alarm resolution, advanced device log analysis, and troubleshooting. * Championed deployment and monitoring of critical software features, leading comprehensive testing of 5G NR (New Radio) functionality, including voice and data call analysis, trace capture, load testing, regression proof, and CI/CD pipeline support. * Identified and mitigated network impairments such as VSWR, SINR degradation, and Passive Intermodulation (PIM), contributing to measurable performance improvements. * Directed network tuning activities and managed change request workflows in coordination with T-Mobile and OEM device engineering teams. * Oversaw work order prioritization, resource allocation, and the execution of software upgrades across live and test environments. * Spearheaded First Field Implementation (FFI) of advanced 5G NR features, including Carrier Aggregation, DL/UL Leg Switching, Link Adaptation, Mobility Management, and NR Aggregation, culminating in successful commercial launches. * Led final feature reviews and played an integral role in release planning and change control governance. * Facilitated detailed Root Cause Analysis (RCA) sessions alongside R&D teams, OEM vendors, and T-Mobile stakeholders to ensure rapid issue resolution and continuous quality improvement. * Provided sustained support for both **in-field and lab-based commercial change requests**, ensuring alignment with performance benchmarks and deployment timelines. * Championed the automation of CDMA rehome processes, achieving a 60% reduction in operational cycle time and significantly improving efficiency across network transitions. * Directed planning and execution of Base Station Controller (BSC) rehomes, ensuring seamless integration of paging zones, neighbour relationships, and Cell ID configurations in alignment with RBS modernization initiatives. * Led strategic initiatives to operationalize the Global Service Centre (GSC) India delivery model as part of the SPRINT Leapfrog Project (SNV), aligning global support capabilities with enterprise transformation goals. * Diagnosed and resolved complex network performance issues including Ec/Io degradation, pilot pollution, VSWR anomalies, critical alarm conditions, and paging channel overutilization, while also optimizing BSM scripting to streamline configurations. * Provided technical leadership and oversight for market-level performance, guiding engineering teams in resolving challenges related to **NEWTUN, CACP, and CPS platforms**, ensuring sustained operational excellence and enhanced service reliability.   **PREVIOUS WORK EXPERIENCE**  **2010-2011: Richardson, Texas, Glow Networks Associate RF Engineer**   * Collected and analysed drive test data across Midwest and Southeast regions * Troubleshot network discrepancies and prepared validation test routes * Coordinated drive teams and provided technical support.   **PUBLICATIONS & AWARDS**   * Collaborated paper, “A Novel Antenna Array Calibration Technique” * Proposed, “Cognitive radios resource allocation techniques using spanning tree algorithm” * Presented, IETE survey-paper on Vehicular Ad-hoc Networks * National Mathematics Olympiad Championship participant- India * North America RNAM Innovation Award Winner   **LEADERSHIP & ACTIVITIES**   * Editor, RNAM Monthly Newsletter; Event Coordinator, Ericsson North America * Indian Student Association (Lead Actor, University Play, Event Volunteer), Michigan Technological University; Cultural Committee, RJIT * Athletics: College Basketball (RJIT), Volleyball (Team Winner), Golf (Tee-shot Winner) * Paragliding Pilot (P2) * On-campus Employment — Barista/Cashier, Dining Services (20 hrs/week) while completing full-time MS coursework; consistent reliability and customer service.   A black background with a black square  AI-generated content may be incorrect.  *-References will be provided upon request-* | |