CHANDAN KUMAR

To adapt to the emerging technologies and trends and to work in an organization that promotes creativity and innovation. I would like to use my skills to attain organizational goals and to expand my technical, managerial, and functional expertise.

🎓 **B. Tech (EEE)**   📞 **+919162808653**, **+919661306020**   ✉ **chandansoni.1502@gmail.com**

Profile Summary Skills & Work Experiences

Client	Jio, Airtel Bharti.
OS	Windows, Android.
Chipset	Qualcomm, MediaTek, Unisoc, ASR.
Protocols	SIP, IMS, SDP, Diameter, RTP, RTCP.
Domain	5G-NR-VoNR, LTE -VoLTE, IoT, I&C, EnodeB & Router-Integration, Operation & Maintenance etc.
Devices	**Work on OFDM Layer-1 Development Devices LTE/5G feature/Smart phones, WiMAX, WiFi 802.11 a/b/g/n/ac/ax, LTE, 5G), MiFi-WiFi, ODU-IDU, laptop-Book etc.**
Software tools	QXDM, Q-CAT, P-CAT, QFIL, ELT, Wireshark, Logel, Cat-Studio, Power monitor tool, Putty, xcall, Site forge (RJIL), Google Earth, Magnetic Compass etc. Friendly work with Adobe Photoshop, Acrobat, Coreldraw and MS Office (Word, Excel, Power point).

Overall 6+ years of Experience in IT (Protocol Testing), Telecommunication signaling & media.

- Extensive Knowledge of UE and Radio Antenna Technologies, including LTE eNB, 5G gNB, TDD and FDD.
- Good Experience of 5G-NR, SA (gNB, AMF, UPF, SMF), NSA, NR- VoNR, Epsfb and 5G-NR/VoNR, VoLTE architecture.
- Hands on experience on Customer chipset-based Tools Process and methods Qualcomn Package Manager (QXDM, QCAT, PCAT, QPST AND QFILL), Wireshark, MediaTek-ELT, Unisoc-Logel, ASR-Cat studio.
- Debugging and Performed log analysis in LTE, VoLTE and 5G technologies for finding the possible root cause and location functionality of devices IOT, WIFI MiFi, feature phones, Jio-Book, Smart phones like Poco-X5pro, Oneplus 9RT, Jio phone 5G, (like mobile phones, laptop, Wi-Fi.
- Setup, testing and integration Small cell, eNB, gNB, WIFI, WIMAX(ODU), MIFI and PDCP SN Length.
- Work on Interoperability between LTE and 5G NR (NSA 3X, SA2).
- Field network radio parameters (threshold, offset, hysteresis) optimized for field KPIs (RSRP, RSRQ, SINR, RSSI) for smooth continuity of tested cluster.
- Investigate, explain and report UE or Network errors, including collaborations with other teams.
- Understanding of Protocol Stack (PHY, MAC, RRC, RLC, PDCP layers), Frame structure and Multiple Access technology (OFDMA, TDMA, CDMA, FDMA), LTE/5G NR fundamentals such as Carrier aggregation.
- Good Knowledge of IMS and protocol for VoIP network like SIP, Diameter, P-CSCF, ICSCF, TAS and SDL.
- Good Understanding of measurement events (A1, A2, A3, A4, A5, A6, B1 and B2)
- Good Understanding EPS Bearer QCI and 5QI
- Good Experience on 5G and LTE protocols validation and Log-analysis, SIP - IMS, VoLTE, SMS, end to end call flow, call performance, voice quality test, Handovers, data performance, Call hold, Call Forward, call parking, call conference and devices Performance Testing like Handover, Cell-Reselection, RRE, OOS etc...
- Very good technical understanding of upto 3gpp Releases 15 specification for 5G and 4G (RRC, NAS, MAC layer)
- Device chipset performance testing like modem test, feature and functional test, thermal test, build regression test, sanity test and FOTA test.
- Catalyst for Operations and Maintenance Project management,deployment, Integration, Quality control, Project deployment and Configuration. Troubleshooting, 3G, 4G Operations. Knowledge in routing protocols and CISCO ASR router, design and implementation of telecom project, WAN.
- Resolve any arising - problems at LSMR and Netspan etc. Backend support in integration and alarm management. Support to field engineer for commission and integration remotely.
- L1 Support for Investigative and Fault management activities for ISP Access electronics like eNB, ESC CSS.

- Good Experience of installation, Commissioning and Integration of EnB and MW Radio (Ip20c) and E Node B. End to end navigation, ATP and Vendor coordination. Experience of Citrix navigation and alarm monitoring for eNB.
- Physical Optimization by Antenna down tilt and reorientation for proper coverage. Tilt, alarm monitoring, PRB utilization. Responsible for site optimization according to recommendations. Validation and remove different coverage holes as per recommendation.
- To verify sector azimuths, technology and antenna Heights. Resolving Issues related to Swap, PCI Check& removing the Sector Swap, Cycle Swap on site.
- Ability to interact with end users, adopt new environment **q**uickly. Good analytical skills and ability to work.

EXPERIENCE

A. **Name of Employer** **: Marquistech Pvt Ltd.**

Duration of Employment **:** April 2023 – Present
Project : Wonderland DNI for Jio Mumbai. 5G Project
Designation **:** Test Engineer

Responsibilities
- Troubleshooting errors (signaling & media) if any during deployment full DNI device test and validation and checking the Modem Logs, Blocker, Critical Issue and log analysis by Q-Cat, Wireshark, Cat-Studio and Logel.
- Good knowledge of wireless / base band signal processing concepts
- **Worked on OFDM based commercial wireless technology Layer-1 Development (e.g. WiMAX, WiFi 802.11 a/b/g/n/ac/ax, LTE, 5G).**
- Hand-on expertise on the 4G/5G Layer-1 development on a GPP or DSP. Working experience of Intel Flex RAN.
- Experience with L-PHY and the understanding of radio parameters (threshold, offset, hysteresis) optimized for field KPIs (RSRP, RSRQ, SINR, RSSI) for smooth continuity of tested cluster.
- Experience of using test equipment's e.g. VSA, VSG etc.
- Performing device testing, chipset based mobile application testing, manual Feature testing, Functional Testing, System Testing supplementary call services like (call hold, call transfer, call busy, call forwarding etc.), Device Flashing, Mobility & Stationary Testing, sanity testing, and full scope of Testing.
- Debugging and Performed analysis in LTE, VoLTE and 5G technologies for finding the possible root cause and location functionality of devices End user product Testing and benchmarking of products and Performance.
- Maintenance for pre and post launch products, including reproduction and diagnosis of problem. Preparation of bug & test summary report.

Technologies
- 5G-NR-VoNR and 4G-LTE-VoLTE, ODU, Air fiber and IoT etc.

B. **Name of Employer** **: Team Lease (NOKIA)**

Duration of Employment : **SEP 2022 -MAR 2023**
Project : 5G Project
Designation **:** Project Engineer

Responsibilities
- Testing Software X-Call, Xcap, Site-Forge, Net Velocity
- Ability to analyze the cell data of each sector.
- Volte MO/MT Testing, Ping /Latency Test, EPSFB/ VoNR Testing, Throughput Testing
- EnodeB Upgradation, Cisco/ Router integration and upgradation
- CDU to RDU Upgradation

Technologies
- X-Call, X-Cap, Site Forge, Net Velocity

C. **Name of Employer** : **Ve**dang **Cellular Services Pvt. Ltd- A Quess Company**

Duration of Employment : FEB 2020-SEP 2022
Project : 2G, 3G,4G & Small Cell Project
Designation **:** Project Engineer

Responsibilities

- Good knowledge of wireless / base band signal processing concepts
- Worked on OFDM based commercial wireless technology Layer-1 Development (e.g. WiMAX, WiFi 802.11 a/b/g/n/ac/ax, LTE, 5G).
- Hand-on expertise on the 4G/5G Layer-1 development on a GPP or DSP. Working experience of Intel Flex RAN.
- Experience with L-PHY and the understanding of radio parameters (threshold, offset, hysteresis) optimized for field KPIs (RSRP, RSRQ, SINR, RSSI) for smooth continuity of tested cluster.
- Experience of using test equipment's e.g. VSA, VSG etc.
- Log in to Niam, CITRIX, NOC APPS, LSMR, PUTTY &USM for integration resolving day today alarm of site
- Checking ALI LIST, ALI LOG
- Checking Current Alarm for alarm troubleshooting
- Checking Event history for alarm troubleshooting
- Checking Inventory Management log for getting Hardware Details
- Checking EnodB s power by performance statics
- Assign the task to concerned team for alarm rectification
- Supervising Team member for the assigned activities.
- Alarm rectification of Antenna, RET, Jumper, CPRI, backhaul and RDU, CDU.
- Responsibility: RDU Integration and Spoke in field location.
- EnodeB integration and troubleshooting of various hardware alarms during field and remote integration.
- EnodeB complete installation commissioning and checking every punch point on every site.
- EnodeB reachability checking & transforming into Static IP mode.
- Alarm checking of EnodeB through OADF testing tool.
- Checking every punch point of ATP 11A and upload to site forge.
- Defining various radio parameters as per planning, Configuring Cell & Sector, Troubleshooting on RRH, Antenna RET, and throughput issue.
- Microwave complete installation, alignment, commissioning and define radio parameter and troubleshooting problem.
- Cisco complete installation, commissioning, ATP 11a, run script and reachability test through mw and fiber
- Alarm rectification of Antenna, RET, Jumper, CPRI, backhaul and RDU, CDU.
- ATP 11A, ATP 11B through site forge, assign the task.
- Performing planning, configuration, management and optimization with the help of Management.
- Overall project management in terms of I&C, deployment, planning, coordinating to Vendor team.
- Performed throughput and latency testing with Test EnodeB.
- Troubleshooting of the issues faced in the EnodeB by troubleshooting different interfaces like s1 and x2 and provided resolution for the same
- Performing planning, configuration, management and optimization with the help of tool

Technologies

- X-Call, X-Cap, Site Forge, Net Velocity

D. **Name of Employer** : **Shree Engineers (NOKIA)**

Duration of Employment : **AUG 2019 – DEC 2019**
Project : 2G, 3G & 4G Project
Designation **:** Project Engineer

Responsibilities

- Coordination with LSP & ASP team according to plan.
- Responsibility of shifting of Nodes and its alarm rectification.
- Integration and commissioning of BTS

- Integration and commissioning of NODES (X-PIC)
- Responsibility to provide alarm free site after work done.
- Responsibility of acceptance test from customer end.
- Supervise team member while installation, de-installation and upgradation of system.
- Prepared documentation for ongoing project

Technologies
- BTS site manager,2G-BTS site manager, SBTS 18.

E.   Name of Employer   : Accord Synergy Ltd. (NOKIA)
Duration of Employment   : AUG 2018- JUN 2019
Project   : Bharti Airtel (2G, FDD, TDD,4G-LTE, L2100)
Designation   **:** Project Engineer

Responsibilities
- Responsibility: RDU Integration and Spoke in field location.
- EnodeB integration and troubleshooting of various hardware alarms during field and remote integration.
- EnodeB complete installation commissioning and checking every punch point on every site.
- EnodeB reachability checking & transforming into Static IP mode.
- Alarm checking of EnodeB through OADF testing tool.
- Checking every punch point of ATP 11A and upload to site-forge.
- Defining various radio parameters as per planning, Configuring Cell & Sector, Troubleshooting on RRH, Antenna RET, and throughput issue.
- Microwave complete installation, alignment, commissioning and define radio parameter and troubleshooting problem.
- Cisco complete installation, commissioning, ATP 11a, run script and reachability test through mw and fiber
- Alarm rectification of Antenna, RET, Jumper, CPRI, backhaul and RDU, CDU.
- ATP 11A, ATP 11B through site forge, assign the task.
- Performing planning, configuration, management and optimization with the help of Management.
- Overall project management in terms of I&C, deployment, planning, coordinating to Vendor team.
- Performed throughput and latency testing with Test EnodeB.
- Troubleshooting of the issues faced in the EnodeB by troubleshooting different interfaces like s1 and x2 and provided resolution for the same
- Performing planning, configuration, management and optimization with the help of tool

Technologies
- BTS site manager,2G-BTS site manager, SBTS 18.

Academic Qualifications
- B Tech (E E E) from Sri Ganganagar EngineeringCollege (Rajasthan) in 2017.
- 12th from BSEB Patna (Bihar) in 2010.
- 10th from BSEB Patna (Bihar) in 2008.

Strength
- Strong Interpersonal and Communication skills.
- Ability to work in a team with diverse backgrounds.
- Strong commitment to quality.
- Determination, dedication, and discipline.
- Willing to learn and adapt to new opportunities and challenges.
- Good leadership quality, Motivating power, Creativity, Strong will power, Self-analyst

Personal Details

Father's Name	: -	Mr. Uma Shankar Prasad
Date of Birth	: -	15th of Feb, 1993
Gender	: -	Male
Marital Status	: -	Un-Married
Languages	: -	Hindi, English
Address	: -	Muzaffarpur(Bihar). 843111
Nationality	: -	Indian

Declaration

I declare that all information given in my cv is to the best of my knowledge, belief true and correct

(CHANDAN KUMAR)