**Anusha Rudramurthy**

**Sr. RAN Engineer**

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**Prosper TX**

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**469 532 4355**

**H1b**

**C2C Only**

 **Open to relocate and ready to go onsite from day 1.**

**Professional Summary:**

* Around 9 experienced RAN Engineer with proven track record in CIQ creation, design, integration and troubleshooting of LTE/ 5G NR (Macro, cRAN, DAS) and mmWave to ensure seamless performance of the network.
* Expertise on ALU 5620 SAM, Nokia NetAct GUI and Mavenir’s ORAN environment for integration, testing and monitoring of the network.
* Strong understanding of 3G, 4G, 5G, ORAN architectures with good troubleshooting and analysing skills.
* Good experience in RNDCIQ creation for LTE and 5G using RF tools like ATOLL, RMAP, RFDS etc.
* Prepared and executed designs for new cell site, additional carriers and parameter updates in the OSS.
* Provided lab support for testing and maintenance of ORAN Toycell eNB.
* Hands on experience with installation of Linux OS and modification of BIOS as per customer requirements in the DU.
* Experienced with Linux command-line and shell scripting for administration tasks including file, networking and process management.
* Hands on experience in Kubernetes command-line kubectl to create the desired pods using YAML file and monitored the pod lifecycle.
* Experience in performance and fault management of the network.
* Expertise in RF path and RRH troubleshoots in the RAN network.
* Performed Root cause analysis (RCA) and reported post integration issues to customer for further analysis.
* Provided both on-call and email support to market vendors and provided updates to customers as required for integration / troubleshooting issues for successful deployment of the network.
* Gathered technical information and tailored Method of Procedures (MOPs) using tools like Microsoft Word and Visio.
* Hands on in JIRA for defect creation and tracking issues ensuring timely updates and status visibility for stakeholders.

**Technical Skills:**

* **Technologies**: 3G, 4G, 5G, ORAN
* **Network Tools:** Nokia NetAct GUI, ALU WMS, RMT, ALU 5620SAM, ATOLL, PuTTY
* **Languages:** Bash
* **Orchestration/Containers:** Docker, Kubernetes
* **OS:** Linux
* **Bug Tools:** JIRA
* **Servers**: Kontron ME1210
* **ORAN RRH**: Jabil RRU
* **Cloud Providers**: Azure
* **Microsoft** Visio
* Excellent written and verbal communication skills.
* Leadership and Problem-solving skills.
* Teamwork
* Flexibility with dynamic work environment.

**Certifications:**

* Microsoft Certified: Azure AZ-900
* Microsoft Certified: Azure AI-900

**Education:**

* **Master of Science in Networking and Data Communications,** Kingston University, London, UK
* **Bachelor of Engineering in Electronics and Communication,** Avinashilingam University, Coimbatore, India

**Professional Experience**

**Employer: Cuboid IT Solutions**

**AT&T, Dallas TX May 2024 – Till Date**

**RAN Engineer**

**Responsibilities:**

* Perform Hardware and software integration for 5G gNB & RRH with related network elements.
* Supported Network optimization activities by updating the parameters based on RF team requirements observed during drive testing.
* Diagnostics of hardware, software and fault management as well as performance monitoring of RAN elements.
* Troubleshooting of alarms in the gNB observed during and post integration for successful commercial launch.
* Coordinate with field engineers to isolate and fix RF issues before reporting it to customers.
* Responsible for KPI verifications, document reviews and provide feedback.
* Debug and resolve issues and assist resolving issues discovered during field/lab testing.
* Provide input for improvements in lab functionality, test automation, training, and lab maintenance procedures.
* Issued JIRA tickets with details about hardware/software related issues with detail and collaborated with the development team for possible solutions.
* Analyzed the results, debug the failures and worked closely with Field teams to identify the root cause and resolve the issues.
* Ensure seamless call delivery by resolving RF issues by performing root-cause analysis and monitoring traffic flows.

**AT&T Group, Plano, TX November 2022 – April 2024**

**RAN Engineer**

**Responsibilities:**

* Performed as a RNDCIQ Engineer, planned, and ensured the successful deployment and integration of telecom networks and services by identifying the scopes based on the customer requirements and existing network.
* Responsible for working along with Customer/ATT RF team to resolve any discrepancies in the creation of GNB/eNB or adding additional carriers on the network using ATT tools like ATOLL, RMAP and RFDS to deploy RAN equipment in the existing network.
* Prepared CIQ with spectrum provided in ATOLL or market standards provided by customer, power levels based on HW and proposed Bandwidth/Spectrum sharing, antenna config and tilt/azimuth values along with other standard design values per ATT GS for successful handover to optimization and commercial launch.
* Worked with ATT RF team in case any discrepancies observed based on market standards and recommended any required design changes to the existing carriers improving network capacity.
* Scheduled designs to be implemented in the network based on construction scopes, transport availability, Software upgrades and ensuring no adverse changes happen in the network.
* Guided the team by providing guidance and support to peer team members by sharing knowledge and offering them constructive feedback.
* Coordinated with team to ensure tasks were completed before the expected timeline and escalated any delays for assistance.
* Responsible for documenting the CIQ along with HW/SW upgrades and proposed network changes to Customer PMs to facilitate network enhancements with other operational groups.

**Mavenir, Richardson, TX August 2021 – November 2022**

**RAN - Subject Matter Expert (SME)**

**Responsibilities:**

* Performed as a ORAN Engineer for the implementation, integration and optimization of ORAN LTE Network for Triangle communications.
* Assisted/performed negative testing on a 4G toy ORAN setup in the lab environment.
* Configured, tested and documented the performance of BEC CPE's in the lab environment for the proposed network, reported any required high level design changes to R&D.
* Responsible for kiting and shipping the site equipment as per BOM with the warehouse to the customer premises for deployment.
* Worked on the implementation and deployment of ORAN solutions, including Hardware (DU, RU), Software (Linux OS) and Configuration as per customer requirements.
* Lead the team and pre staged the Kontron ME1210 distributed unit in the lab for field deployments as per the designed transport and managements systems.
* Configured BIOS, Grub Changes during installation of Linux OS in the Kontron server along with specific site BMC, internal switch and PTP information for accessibility and deployment in the field.
* Coordinated with vendors for troubleshoot/resolving the product issues pre and post deployment in the field.
* Post Integration/Deployment of 4G ORAN site in the customer network monitored the network (in Kubernetes) for any alarms/HW related issues and KPIs (preferably latency and packet loss) before handover to the customer.
* Assisted the drive tester for collection of data and analyzed logs collected using XCAL / XCAP tool for network performance to propose any improvements in the network.
* Set the RETs for the Antenna in the GUI as per standards and worked with vendor to resolve RET motor issues.
* Developed test plans and documented the test results (Log captured), identified issues, and collaborated with development (Tier 1/2 R&D) teams to address the defects or shortcomings.
* Prepared and maintained documentation, including method of procedures (MOPs), configuration guides, and operational procedures.

**QuadGen Wireless Solutions, Bengaluru, India January 2015 – February 2020**

**Technical Manager/RAN Integration Engineer**

**Responsibilities:**

* Worked as Technical Manager in effectively managing client expectations and ensured successful technical deliverable with the provided resources.
* Setup status call with the client/team on regular basis to understand their needs and addressed concerns.
* As a Lead/RAN engineer and integrated RAN components, troubleshot issues to ensure seamless performance of the network along with mentoring new technical team members.
* Provided on-job training and organized workshop for new engineers in the team on the HW/SW outline required for site Integration, Monitoring and troubleshooting.
* Prepared CIQ based on customer requirements from RFDS/ATOLL for 4G sites to be built on a Network.
* Prepared 4G Design scripts using automation tools for new enodeB / carriers/ implemented configuration changes that was deployed in the customer network.
* Designed and executed plans on Nokia NetAct GUI to change eNB Parameters in the Network using CM editor.
* Configured External alarms in SMM and performed NEA tests with field Engineer.
* Worked on ALU 5620 SAM for LTE design, site management, carrier integration, call testing and troubleshooting.
* Validated NDER provided by the customer and prepared design scripts for NSB that will be deployed in the customer 3G network for Integration.
* Prepared DHCP, LACSAI, LCS and workorders which comprised the Design scripts for 3G NSBs. Executed workorders on ALU WMS and integrated them to the network.
* Detects/ troubleshoots Radios and updated APD gain using RMT. Also Performed alarm migration from LTE to UMTS and scripted the alarms as per customer requirements.
* Validated and scripted RETs and TMAs as per RF design requirements.
* Documented accurate records of RAN configurations, parameters, performance data and performed Root cause analysis (RCAs) on any issues identified along with proposed resolution and shared with customer for review.
* Monitored KPIs (Key Performance Indicators) and troubleshoot performance issues with RF path until BBU with crews/field engineer to ensure virtuous performance of the network.
* Prepared Method of procedures (MOPs) documents for Design/Integration of 3G/LTE and maintained basic troubleshooting guidelines/techniques to be followed while providing support.