

# ARUNKUMAR. J

**Address:**

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## Summary

Having 7 years of Exp. in RF Domain ENodeB & UE Testing. I have worked 5G SA, NSA, VoNR, NRCA, LTE & VoLTE KPI Optimization, Site Optimization, Drive Test log analysis, Jira Bug Tracking, Benchmark drive analysis, IBS Testing, UE Testing, ENodeB Testing. I have problem solving & team building skills with proficiency at grasping new technical concepts quickly and utilizes the same in a productive manner.

## Skill Highlights

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- QXDM & QCAT Log capture & analysis.
- UE Spirent Call, Voice Quality Testing.
- Jira Ticket raising & Bug Tracking
- Log Analysis of 5G NSA, SA UE attach.
- Emergency call Testing in Various RAT
- End-to-End IMS Call flow.
- Drive test report preparation
- KPI monitoring & MLB optimization
- MOCN, Roaming, Intl Roaming Testing
- Battery Testing using Monsoon tool

## Experience

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### Test Engineer – Motorola TMO-MVNO US Project

Marquis Technologies Bangalore

2 Years 8 Months Experience

- Good understanding of LTE call flow Attach/Detach procedure, TAU procedure, Handovers, Network Registration process and Creation, Modification and Deletion of EPS bearers.
- Knowledge on EMM and ESM procedures in NAS layer.
- Knowledge on end-to-end IMS call flow (Call hold, Call Forward, call conference, Call transfer)
- Basic knowledge on Log Analysis of 5G NSA UE side Attach procedure.
- Knowledge on 5G NSA Cell addition failure cases.
- Good understanding in IMS architecture with all the nodes.
- Working on log analysis using QXDM, QPST, QCAT and Wire shark and ELT.
- knowledge on LTE Layers like PHY, MAC, RLC, PDCP, RRC, NAS.
- Knowledge on analyzing and identifying bugs from the logs of Wireshark and QXDM and ELT.
- Good Experience in analyzing logs, debugging and isolating issues.
- Knowledge of device flashing and capturing log using QXDM.
- Log analyze of VoLTE/ VoWiFi Registration, De-Registration, Re-Registration.
- Working on IMS Procedures & Services, Security in EPC & IMS, Policy and Charging Control in EPS and IMS, EPC Interworking with Other Networks VOIP/IMS and Overview of VOIP, IMS Technology
- Knowledge on Functional/Performance/Sanity/Stress/Regression Testing on Manual basis
- Log Analysis of test cases and reporting Preparation of test plans for the above activities based on 3GPP specifications.
- Willingness to learn and adapt to new opportunities and challenges.

## **RF Engineer**

### **Client – Huawei Telecommunication**

#### **Indonesia H3I Project - IKYA Human capital solution**

- Responsible for improving KPIs like Accessibility, Retainability, Mobility (RRC Setup success rate, ERAB Setup Success rate, IRAT Handover success rate, DL & UL Throughput measurement & Drop calls). % Time on LTE and voice fallback to 3G (CSFB)
- Mobility analysis for HO prep and HO execution failures and rectification to improve the same
- Parameter Audit and Consistency Check for eNodeB's
- Identify PCI confusion, confliction cells and rectify with help of planning team
- Traffic Balancing between Carriers to improve Network Quality using Idle Mode and Connected Mode
- Good understanding of Huawei LTE Features like Mobility control at poor coverage, Multi-RRC Establishment, UL/DL Coordinated Multipoint, MIMO strategies, CDRX tuning, Idle mode Strategy, Automatic Handover Optimization, Carrier Aggregation etc.
- Identification of VoLTE issues like lack of dynamic QCI-1 activation, VoLTE required features not activated, SRVCC issues etc.
- Responsible for Network Audit for discrepancies and parameter changes for the improvement of KPI (Accessibility, Retainability, Mobility Service Integrity)
- Define optimal neighbor relationships.
- Analysis of site performance after integration using drive test measurements.
- Responsible for adding and cleaning up neighbors using OSS.
- Responsible for finding missing neighbors using Omstar & FMA Visualization
- Preparation of drive routes for single site/ cluster and co-ordinate drive test with Mapinfo, QGIS tool

#### **Bharti KTK Airtel Project – Metro telworks PVT LTD**

#### **Bharti KTK Airtel Project – Integrated Wireless Solution**

- Carrying out the Physical tuning for the LTE Sites to improve the SINR || RSRP to improve the user experience.
- Worked for entire Bangalore city Benchmark Drive for the Airtel.
- Worked on Massive MIMO, Twin beam || Small Cells LTE Rollout.
- Packet data analyzing by use of Wireshark in video streaming project
- LTE Drive test analysis with the help of Genex probe which contains RSRP analysis, SINR analysis, overlapping cells optimization, missing neighbors (4G to 4G & 4G to 3G), and parameters
- Analyzing the LTE SCFT & Cluster drive and preparing the SCFT & Cluster Drive Report.
- Coordinating the Drive team and providing the optimization solutions to do the physical tuning.
- Handling regarding about network complaints like coverage problems and providing suitable solutions
- Performed Coverage Analysis, Identified & Optimized Coverage Holes based on CPICH, Ec/Io.
- Analysis of HO failures, poor throughput areas and providing the possible solutions.

## **Tower Electrical maintenance – Artom Telecom**

- O & M electrical maintenance up to 22 towers.
- Installation of electrical equipment ACPDB, Power plant Battery bank
- Alarm clearance of all external alarm on site

### **Education**

Bachelor of Engineering, (2011-2015) with 64.5% aggregate SVC college of Engineering & Technology, Puliangudi, T.N

**Languages:** English, Tamil, Kannada (Speak), Hindi (Speak), Telugu (Moderate Speak)

**Date of Birth:** 08 Feb 1994

### **Personal Details:**

Father's Name: Mr. A.Jegatheesan  
Father Occupation: Small Business  
Mother's Name: Mrs. J. Vijayalakshmi  
Marital Status: Married  
Permanent Address: No. 11, Solai malai nadar st,  
Muhavoor, Rajapalayam (Tk),  
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I hereby declare that the information given above is true to the best of my knowledge and belief.

(ARUNKUMAR. J)