

**UE Protocol Test Engineer**

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**Career Objective:**

Seeking a Challenging and growth oriented full-time position as UE Test Engineer and to be a part of team the best utilizes my skill set and experience coupled with enthusiasm.

**Professional Experience**

- Proceeding as Test Engineer from November 2022 with **Marquis Technologies Pvt Ltd**, currently working for the client Motorola on American-based manual UE protocol testing and log analysis
- Worked for Technical Executive (Karnataka circle) - **JIO 4G** Reliance SMSL Limited, Aug 2021 to November 2022.
- Worked for Senior Telecom Engineer from Jul 2018 to APR 2021 with **Integrated Wireless solution Pvt Ltd**, worked for Vodafone IDEA cellular.
- Worked in **RADCOM SOUTIOS** from Jul 2016 to Nov 2017 with Idea Cellular Limited.

**Working Experience**

- Performed testing across various components with US-based operators, ensuring adherence to mobile network requirements.
- Executed Carrier Aggregation (up to 5CA) and Throughput testing to optimize mobile network performance.
- Tested and validated critical network protocols such as IMS, EPSFB, EN-DC, and CSFB to meet performance and reliability benchmarks.
- Analyzed LTE call flows, with a focus on attach procedures and RRC messages like connection and reconfiguration for accurate protocol validation.
- Conducted battery testing using Power Tool, ensuring efficient power consumption in real-world scenarios.
- Assessed voice quality, speech delay, and call performance using Nomad Tool, ensuring high call quality standards.
- Experience on IMS/SIP Registration & Call Flows at UE's stack
- Worked with Qualcomm and MediaTek chipsets, ensuring devices meet technical specifications and perform optimally on networks.

**RF Test Profile:**

- Analysis of KPIs - Accessibility (RACH issues, multiple RRC connection request etc.), Retain ability (PS drops), Integrity, Mobility and VoLTE KPI's
- Carrying out regular parameter audits and clearing the issues through CR
- Regular monitoring of network traffic, PRB utilization, high loaded cells and low utilized cells and taking regular actions
- Responsible for New site rollout, SCFT, Cluster drive, Golden route drive, Comparative drive, TRAI/ DOT activities, and MRO rollouts
- Ensuring drive KPIs to be met RSRP, RSRQ, SINR statistics, R2, DL/UL throughput, Latency, SRVCC, Inter RAT HO etc.

### **Protocol Testing Tools:**

- UE Tools knowledge: QXDM, QCAT, PCAT Umetrix Voice and data tool, Msoon Tool, ELT Tool.
- Chipset: Qualcomm, MediaTek Chipset

### **RF Tools:**

- Drive Test Tools: TEMS 17.2 GENEX Probe 3.15, MAP INFO 17.0
- JCP Foresight Tool, XCal, Tems, LSMR, HPSM- CRM, Map info, GENEX Probe.

### **Educational Qualification**

- B.E. Electronics and communication Engineering
- Mahendra Engineering College, (Affiliated to Anna University of Chennai)
- DIPLOMA. Electronics and communication Engineering
- Muthayammal Polytechnic College, (Affiliated to Dote)

### **PERSONAL PROFILE**

<b>Date of Birth</b>	:	17/10/1993
<b>Father's Name</b>	:	Mr. M. Palanisamy
<b>Nationality</b>	:	Indian
<b>Languages Known:</b>		English, Tamil, Kannada

### **DECLARATION**

I hereby declare that all the statements mentioned above are correct to the best of my knowledge and belief.

**Vignesh Kumar. P**