AJITH KUMAR K
WLAN Testing Engineer

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OBJECTIVE

Experienced with manual and automated testing, ensuring software reliability and performance. Uses comprehensive testing strategies to detect and resolve defects early in development cycle. Knowledge of industry-standard testing tools and methodologies, consistently delivering high-quality results.

WORK EXPERIENCE:

- Worked in **Zilogic Systems Private Limited** as a **Wlan Testing Engineer I** from September 2022 to June 2025.

PROFESSIONAL WORK:

- **Having 3 years of experience in WLAN Testing**.
- Good knowledge on **IEEE 802.11 a/b/g/n/ac/ax/be standards** and WLAN Testing Experience.
- Good knowledge on **Wireless Security - WPA2, WPA3.**
- Good Understanding of 802.11 MAC and PHY layers.
- Experienced in following testbed preparation, test plan creation and execution, regression testing.
- Good experience in Wireless Performance, Stress and Stability Testing.
- Good Knowledge in key Features of **OFDMA, MU-MIMO, TWT, Security, MLO, Puncturing.**
- Hands-on experience in Product Stability AP and Performance testing of various Qualcomm chipsets along with Functional viability.
- Exposure to bug reporting tool like **JIRA, Orbit, Crashscope.**
- Experienced in executing automation scripts, Validation and Analysis.
- Experienced in testing concepts like
  - Testbed preparation according to the test case pre-requisite.
  - Following Bug metrics, such as reporting, reproduction of bugs for the respective corrections
  - Regression, Stress, Performance & Stability Testing.
- Experienced on Validating Newly added features & their Functionality.
- Experienced on Log analysis, Log collection, Reporting the analysis through Graphical representation.
- Good Knowledge in **11be Features.**
- Good knowledge in wifi Easymesh.
- Knowledge in Python Programming.

SKILL:

● **Protocol Standards:**	OSI Layers, ARP, DHCP, DNS, 802.11a/b/g/n/ac/ax/be.
● **Traffic generators:**	Chariot, Iperf, VLC server, FTP server
● **Packet Analyzers and builders:**	Wireshark
● **Operating System:**	Windows, Linux / Ubuntu, MAC-OS

PROJECT DETAILS:

Zilogic Systems Private Limited | September 2022 to June 2025 | **Designation: Wlan Testing Engineer I**
Client – Qualcomm Inc.
Worked on Various Qualcomm chipsets which supports wifi-6e, wifi-7.
Responsibilities in Peak KPI Throughput Testing:

- Built new testbed for various Performance testing.
- Automate the scripts to analyze the console log.
- Wlan chip functional testing in new feature and performance testing.
- Test case design for wlan chip based on the new feature and requirements.
- Wlan regression testing to confirm known bugs are not present in new meta releases.
- Closely worked with tech teams to resolve the functional and performance issues.

Responsibilities in Easymesh Testing:

- Built new testbed for various easymesh topologies – Star and Daisy.
- Automate the scripts to analyze the console log.
- Bring up servers for testing – Radius server, FTP server, Ix-Chariot server.
- To test the AP's Stability and performance with Easymesh configuration in Y- topology or daisy chain topology with 4 AP's, 28 Clients.
- Reporting the bugs and follow up activities to resolve it.
- Debugging and Fixing testbed issue.
- To test the roaming and steering between AP's which are configured through Easymesh. Analysis of Association request in some of the commonly used clients in the Easymesh setup, for better understanding of device capabilities.
- Used python script to save crash logs for endurance test.

Zilogic Systems Private Limited | June 2022 to August 2022 | **Designation**: Intern
- **Carrier Back Off Test:** The objective here is to test the OTA Performance of AP (Qualcomm AP vs Competitor AP), with Multiple Wi-Fi clients with different RSSI for 0-360 orientation with Ixchariot traffic.
- **Dual Band Dual Concurrent (DBDC) Test:** The objective here is to test the OTA Performance of AP(Qualcomm AP vs Competitor AP), with 5GHz and 2.4GHz Clients simultaneously operated.

EDUCATIONAL QUALIFICATION:

- **Bachelor Of Electronics and Communication Engineering** at Park College of Engineering and Technology, Coimbatore, Tamil Nadu with 6.0 CGPA.

DECLARATION:

I hereby declare that the above-mentioned details are true to my knowledge and belief.