

Samiksha Pande

Embedded Test Engineer

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WORK EXPERIENCE

Bluetooth Engineer -Intel

L & T technology Services

02/2021 – Present

Bangalore

"Bluetooth Test Engineer with 3 years of hands-on experience in manual and automated testing methodologies. Proficient in crafting and executing comprehensive test plans to validate Bluetooth functionality across diverse devices and platforms. Skilled in utilizing testing tools and frameworks to ensure product quality and reliability.

EDUCATION

Electronics And Telecommunication

G.H Rasoni College of Engineering 78%

05/2017 - 06/2021 Nagpur, Maharashtra

PROJECTS

Bluetooth Device Connectivity Testing

Manual and automated testing of BLE devices, ensuring compliance with Bluetooth Low Energy standards, including handling pairing, connection, and data transfer.

Developed a comprehensive Bluetooth testing suite to evaluate range, connection stability, and power consumption for Bluetooth Low Energy devices in different environments.

Used Python framework to automate tests on mobile platforms, reducing manual testing efforts and improving test coverage.

Conducted a Wi-Fi interference study using Wireshark and spectrum analyzers to identify and mitigate common sources of Wi-Fi signal degradation in crowded environments.

SKILLS

Bluetooth Protocols & Profiles: A2DP, HFP, HID, BLE, SCO, AVRCP, OPP.

Manual Testing: Test Case Design, Regression Testing, Functional Testing, Bluetooth Performance Testing, Debugging.

Testing Tools: Wireshark, Ellisys Analyzer, Event viewer, frontline tool, WRT, Jenkins, exception decoder, HCI decoder.

Test Management: JIRA, Bugzilla.

Scripting & Programming: Python, Python framework.

OS Platforms: Windows, Linux, Android, iOS.

Hardware: Bluetooth/Wi-Fi modules, routers, access points, signal analyzers, Zigbee.

ROLES AND CONTRIBUTION

1. Designed and executed manual and automated test cases for Bluetooth products (headsets, speakers, mouse keyboard.), covering functional, performance, and interoperability testing.
2. Performed interoperability testing between Bluetooth and Wi-Fi enabled devices across various platforms (Android, iOS, Windows). , focusing on quality assurance for wireless connectivity.
3. Conducted Bluetooth performance tests, including connection stability, range, latency, and throughput.
4. maintained automated test scripts for Bluetooth devices, focusing on the integration of Bluetooth with embedded systems.
5. Verified the behavior of Wifi & Bluetooth devices in various scenarios, such as interference, range, and multiple device connections.
6. Interacting directly with users or stakeholders to ensure the product meets business requirements.