

Matt Moseley

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Summary

Systems engineer with experience spanning Windows kernel development, RF systems, and production test automation. Specializes in low level debugging, root cause analysis, and bridging hardware/software boundaries in complex systems.

Skills

Systems / Low Level

- C, C++, kernel-adjacent development
- Driver validation, debugging, log analysis
- Concurrency, system-level troubleshooting

Hardware / RF

- RF measurement (VNA, spectrum analyzer, signal generator, etc.)
- EMI / desense analysis
- Production test systems

Tools / Data

- PowerBI, Azure SQL
- Jenkins, Git
- Test automation frameworks

Experience

Software Engineer - Microsoft

Redmond, WA | August 2022 - August 2025

- Developed tooling for the Windows driver ecosystem, improving driver reliability and certification workflows.
- Wrote C/C++ kernel adjacent code supporting driver validation and safety checks.
- Debugged complex driver failures across 3rd party hardware systems, including log analysis and repro with vendor given platforms.
- Contributed to driver safety features in the Hardware Lab Kit (HLK) test and certification infrastructure.
- Built telemetry pipelines using Event Tracing for Windows + PowerBI to analyze driver quality and trends.

RF / Systems Engineering - Apple Inc.

Cupertino, CA | 2013 - 2022

(Progressed from technician to engineer across RF systems and production test)

RF Systems Integration Engineer (2021 - 2022)

- Developed automation and test software (C/C++/ObjC/Swift) for RF validation in production environments.
- Built tooling for instrument control, data parsing, and CI pipelines (Jenkins, Git).
- Analyzed RF datasets to identify performance issues and improve test coverage.

RF Desense Engineer (2020 - 2021)

- Identified and mitigated self induced interference in wireless systems during product development.
- Performed deep analysis across system-level RF interactions, working with hardware and component teams.
- Root caused noise sources across prototypes through measurement and system correlation.

RF Test Technician / Lab Lead (2013 - 2020)

- Performed RF validation using various test equipment and measurement test setups.
- Supported factory test bring up and production readiness.
- Developed inter tools (ObjC/Python) for automated testing and instrumentation control.
- Managed RF lab infrastructure and test setups.

Electronics Technician - United States Navy

San Diego, CA | 2007 - 2013

- Maintained and debugged satellite communication systems (SHF/EHF) across ship and shore platforms.
- Performed preventative and corrective maintenance on critical communication and navigation systems.
- Supported commissioning of electronic systems for USS San Diego (LPD-22).

Education

B.S. Applied Science & Technology (Electronic Systems Engineering, ABET)

Thomas Edison State University