

Ariel Menda

Senior Software & Mobile QA Engineer

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PROFESSIONAL SUMMARY

Results-driven Senior QA Engineer with 18 years of comprehensive experience in Software, Cellular Systems, and Hardware Testing. Extensive background spanning digital forensics/data extraction at Cellebrite and radio protocol/cellular testing at Partner Communications. Strong expertise in mobile operating systems (iOS & Android), cellular stack (Layer 2 / Layer 3 protocols), and end-to-end testing methodologies. Skilled in Linux, Python scripting, C#, BDD, Git, and containerized Home Automation environments. Recognized deep low-level system troubleshooting, and continuous self-learning.

CORE COMPETENCIES & TECHNICAL SKILLS

- Testing Methodologies:** System Testing, Integration Testing, Regression, E2E Testing, Exploratory Testing, BDD (Behavior-Driven Development), Test Automation Concepts.
- Mobile & Cellular Technologies:** iOS & Android Validation, Cellular Protocols (Layer 2 & Layer 3), Radio Lab Testing, Data Extraction & Forensics Validation, Telecom Infrastructure.
- Languages & Scripting:** Python, C#, Shell/Bash Scripting.
- Tools & Platforms:** Linux (Ubuntu/Debian), Git / GitHub, Docker, Home Assistant, Microservices, JIRA, TestRail, QC, Postman, CLI/Terminal.
- Hardware & Systems:** Mechatronics, Embedded IoT Systems (ESP32, Raspberry Pi), System Diagnostics, OS Recovery (Clonezilla), Network Analysis.

PROFESSIONAL EXPERIENCE

Cellebrite | Petah Tikva, Israel June 2014 – Present

Senior QA Engineer

- Lead quality assurance and validation for advanced digital forensics and mobile data extraction desktop applications and hardware platforms.
- Perform end-to-end testing across iOS Android And feature phones, ensuring accurate extraction, parsing, and data integrity.
- Design, execute, and maintain complex test plans, test cases, and edge-case scenarios within Agile development environments.
- Utilize C#, Python, BDD frameworks, and Git for test management and automation integration.
- Work with Linux and Windows systems, command-line interfaces, and microservices to debug low-level system interactions.
- Collaborate closely with R&D, product management, Other QA and security researchers to identify system bottlenecks and ensure feature quality.
- Designed and developed desktop and mobile applications and internal tools to streamline testing workflows and accelerate the QA lifecycle.

Partner Communications Company (Orange) | Israel 2011 – 2014

Cellular Radio Lab Tester & Protocol Specialist

- Conducted testing in Partner's Cellular Radio Laboratory, focusing on Layer 2 and Layer 3 cellular protocol stacks and radio signals.
- Tested network integration, base station communications, and cellular infrastructure performance under realistic conditions.
- Performed deep-dive log analysis and defect tracing for network and mobile hardware issues.

Mobile Integration & Device Tester

- Executed functional, integration, and sanity testing for new mobile devices, smartphones, and cellular modems entering Partner's network.
- Validated mobile device firmware, network connectivity, SIM features, and value-added services.
- Documented bugs, regressions, and interoperability issues in central defect tracking systems.

TECHNICAL PROJECTS & HANDS-ON EXPERIENCE

- **Web Portfolio & Projects:** Developed and maintained personal technology portfolio showcasing projects and architecture: <https://mendariel.org>.
- **Home Automation & IoT Architecture:** Designed and deployed custom IoT temperature and power monitoring.
- **Self-Hosted Server Infrastructure:** Managed local self-hosted media and storage servers.

EDUCATION & PROFESSIONAL TRAINING

- **Education:** Practical Engineer in Mechatronics — ORT Hermelin Netanya & ORT Herzliya
- **Professional Courses & Training:** Software Testing Course — Interbit
- C# Programming Course (1 Week) — Cellebrite
- **Technical Workshops:** Linux Fundamentals & Administration Course (1 Week)
- Python Programming Course (3 Days)
- Radio RF 3G and 4G – (21 Days) Ericsson
- **Self-Taught Competencies:** Git Version Control, BDD & TDD Methodologies

LANGUAGES

- **Hebrew:** Native | **English:** Full Professional Proficiency