

Profile

I have 17 years of experience in software testing and quality assurance, including 7 years as a QA / Test Automation Lead on embedded systems, SaaS platforms, and Web & Mobile applications.

I'm used to working in Agile environments, setting up QA infrastructures, automating test processes, and improving test strategies over time. I also have solid experience leading teams and making sure the software delivered to users is reliable and high quality.

Education

École Supérieure des Sciences et Techniques de Tunis – Tunisia
Master's degree in Electronics and Instrumentation

Technical & Functional Skills

Technical

Languages & Scripting

Python, core Java, JavaScript, C#, Bash, PowerShell, Expect

Logical / AI-driven Testing

Prompt engineering, dynamic scripting for test case generation, design of a test generation tool (FastAPI + GPT-x)

Data & Configuration

JSON, YAML, XML, CSV, `.env`
Maven POM

Testing & Automation Tools

- **Web E2E:** Selenium WebDriver, Playwright, Robot Framework, Pytest
- **Mobile (Android / iOS):** Appium, BrowserStack (multi-device / multi-platform)
- **API:** Postman, Newman, Apickli (CI pipeline integration)
- **Performance:** k6 (with dynamic scenarios), JMeter, Gatling, InfluxDB + Grafana integration (monitoring)
- **DVB / IPTV specific tools:** DVBSnoop, Wireshark, TSReader, MediaStream

CI/CD & Monitoring

- **CI/CD:** Jenkins, GitLab CI/CD, Azure DevOps
- **Monitoring / Observability:** Grafana, Firebase Crashlytics, New Relic, Android Studio

Test Management & Campaigns

Jira, Xray, IBM CLM, Azure Boards, Bugzilla

Functional

- Build and drive the overall test strategy: by sprint, release, or functional module
 - Identify quality risks, sensitive areas, and define non-regression scope (manual and automated)
 - Work closely with Product, Design, Dev, QA and Ops teams
 - Review User Stories from a QA point of view (3 Amigos style): clarity, value, testability, consistency
 - Quality follow-up & reporting: monitor requirement coverage by test cases, and prioritise defects based on user and business impact
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Professional Experience

November 2021 – Present | Le Parisien

QA Lead Automation

- Define and lead the global test strategy: Web, Mobile (Android / iOS), APIs, gateways, back-office.
 - Build and manage the quality roadmap in line with business and technical priorities.
 - Design and evolve the test automation architecture in a CI/CD environment:
 - **UI Web / Mobile:** Appium, Selenium, then Playwright and Robot Framework
 - **APIs & microservices:** Postman, Apickli
 - **Pipeline integration:** Jenkins, Bitrise, AWS S3
 - Industrialise QA processes with a strong focus on product, user impact and delivered value.
 - Define test plans and critical flows (risk-based testing) to automate or cover manually.
 - Continuously improve QA processes, methods and functional coverage.
 - Integrate an in-house AI analysis tool to enrich test feedback.
 - Run quality audits: accessibility, performance, UX from a QA perspective.
 - Contribute to technology watch: explore new solutions, build POCs / MVPs, integrate modern frameworks.
 - Provide support on customer incidents: analyse subscriber / non-subscriber feedback, app store reviews, etc.
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May 2021 – October 2021 | GrAI Matter Labs

QA & DevOps Manager

Context: Creation of the QA team and integration of QA practices into the software development lifecycle. Setup of QA infrastructure and CI/CD, and definition of business, technical, tooling and governance aspects.

- Defined the test strategy based on internal needs and customer expectations.
- Deployed and configured test management tools.
- Designed an automation framework to cover manual development and deployment tasks for code and data, enabling continuous deployment and integration across all GML stacks.
- Led interviews and hiring to build a dedicated QA team and centralise testing and CI/CD activities (recruitment of two QA engineers).
- Defined the team's scope, monitored daily status, and drove continuous progress and delivery.

Tech environment: Linux Debian 10, GitLab, Docker, xStudio, Python 3.9, C, SoC, FPGA, Raspberry Pi

September 2020 – May 2021 | Suez

QA Lead Automation

Context: Creation and deployment of an automation environment for a set of web applications around remote meter reading, and implementation of test procedures aligned with industry standards and best practices.

- Improved the existing test strategy and strengthened testing activities for the MOA (business) team.
- Supported the MOA team by structuring a testing workflow and driving evolutions via test standards defined in Azure DevOps.
- Created test plans, test cases and documentation in Azure.

Automation:

- Designed the architecture of a C# console application for GUI non-regression tests based on Selenium WebDriver.
- Promoted BDD best practices using SpecFlow (Gherkin).
- Installed CI environments with Jenkins and Azure DevOps.
- Contributed to a project delivered by Atos on load and performance testing for a “Big Data” Kafka migration.

Tech environment: Windows 10, Azure DevOps, Git, Visual Studio, Appium, Selenium WebDriver, SpecFlow (Gherkin), C#, Postman, Jenkins, MySQL, PostgreSQL

November 2019 – September 2020 | ISAAC Instruments

QA Lead Automation

Context: Creation and rollout of an automation environment for all applications related to connected trucking and telemetry (SaaS solution).

- Tested and validated the full ISAAC application ecosystem:
 - Distributed client/server application for fleet management
 - Data analysis application
 - Real-time communication with recorders for vehicle tracking
 - Underlying systems: REST APIs
- Participated in defining the overall test strategy and QA scope.
- Wrote test plans, test cases and documentation in Confluence wikis.
- Analysed the Canadian ELD (Electronic Logging Device) standard for 2020 and derived test cases from Transport Canada requirements.
- Presented an automation proof of concept.
- Defined QA KPIs.

Automation & CI:

- Designed and built an automated non-regression test system: framework based on Appium / Selenium WebDriver, written in Java, for the Android mobile app and ISAAC front-end web interface.
- Standardised tools and practices to make it easier to write new automated tests.
- Architected and industrialised continuous integration: installed and administered Jenkins / Azure DevOps, and created pipelines aligned with QA needs.
- Enhanced standard TestNG reports with additional libraries for better visibility.
- Integrated Postman tests into Jenkins using the Newman CLI.
- Prepared a BDD POC using Gherkin.
- Managed Git and automation processes: commits, code reviews and task planning in Agile Scrum.
- Trained the functional validation team on automation practices and tooling.
- Adapted Scrum methodology to automation work: weekly rituals, sprint reviews, planning, etc.

Tech environment: Windows 10, Azure DevOps, Git, Confluence, Eclipse, Appium, Selenium WebDriver, Maven / POM, TestNG, Postman, Jenkins

January 2019 – November 2019 | Magillem Design Services

Senior QA Engineer / Developer

Context: Testing and validation of multiple solutions in the context of EDA (Electronic Design Automation) projects.

- Defined validation test cases to implement and automate, together with the Product Owner and development team.
- Qualified software outputs (GUI and command-line): generated HDL files, C functions, documentation, diagrams and connections according to the IP-XACT standard.
- Took part in decisions on test approach and strategy.

- Produced and tracked automated test result reports for Product Owners, engineering and development teams.
- Documented tests and ensured traceability of test runs with Xray.
- Analysed existing tools and processes and proposed improvements as a basis for an ISO 26262 ASIL-C certification campaign.

Tech environment: Jenkins, Git, GitLab, Xray, Jira, Confluence

April 2013 – December 2018 | HARMAN by Samsung

Senior QA Engineer

Context: Testing, validation and tooling for a native Type-1 hypervisor dedicated to Android smartphones and automotive use cases, virtualising multiple OSes: Linux, QNX, Android.

- Took ownership of deliverable quality from development through integration to production, in an Agile Scrum context.
- Contributed to defining test approach and strategy.
- Took part in risk analysis and prioritisation with the Product Owner and development team.
- Analysed customer requirements, studied implementation options and prepared test execution.
- Designed test scenarios, test plans and documentation based on automotive standards, and ensured effective QA coverage across the SDLC.
- Automated tests using ATDD practices.
- Reviewed test coverage and identified gaps.
- Reported test results and managed defects in IBM CLM.
- Contributed to “Safety ISO 26262 ASIL B” certification work.

Automation:

- Built Python 2.7 libraries from scratch for system testing of virtualised OSes: Linux, Android, QNX.
- Developed unit and structural driver tests in C.
- Maintained CI (Jenkins).
- Maintained a test framework with a suite of 500+ UI tests for native and virtualised Android in a Linux environment.
- Provided automation expertise for Android and QNX applications.
- Developed automated and semi-automated tests in Python and Java.
- Managed builds with Maven and produced reports with TestNG.
- Used YAML-based data sets for test configuration.
- Wrote technical documentation with Doxygen.

Tech environment: Linux, Eclipse (Java / PyDev), Git, Jenkins, Doxygen, Confluence

January 2013 – February 2013 | Schneider Electric

Integration Engineer

Context: Testing and integration of the P51 High and Medium Voltage Protection platform.

- Refactored code to comply with MISRA C++ 2008 and C 2004 standards.
- Performed structural and unit tests.
- Executed static analysis on firmware.
- Reported test results and managed defects.

Tech environment: C / C++, VxWorks OS, Workbench, Visual Studio, SVN, ClearCase, Doxygen

March 2012 – December 2012 | OpenTV

Embedded Software QA Engineer

Context: UPC IPTV Set-Top Box.

- Reviewed technical and functional documentation.
- Analysed requirements and produced a high-level test strategy and macro planning (Mind Map approach).
- Followed development and managed dedicated test binaries (black-box / white-box).
- Defined and wrote test plans based on specifications and requirements.
- Performed certification and broadcast standard tests (Bertin, Viaccess, etc.).
- Tested Nagra access control.
- Analysed and diagnosed issues together with the client.

Tech environment: UPC STB, Wireshark, MediaTab, MediaStream, Stream Express, XMind

September 2007 – February 2012 | Sagemcom

Software Test & Integration Engineer

Project 1: ETI90 HD Set-Top Box (DVB-T2)

- On-site mission in London: product demos for the BBC and contribution to certification work with DTG.
- Supported and coached the validation team on testing needs (tools, environments, release notes, etc.).
- Provided real-time support and debugging with the development team.
- Reviewed and verified customer requirements and helped refine needs (UI, features, etc.).
- Performed integration testing and impact analysis.

Project 2: Canal Digital Norway Set-Top Box (IPTV)

- Wrote test plans based on specifications.
- Assessed requirements and customer feedback.
- Tested, analysed and reported defects, and followed up on fixes.
- Performed Viaccess access control tests.
- Executed Bertin specification tests.
- Ran functional tests: UI, PVR, audio/video, Dolby AC3/AC3+, VOD, etc.
- Conducted interoperability tests: HDMI and DHCP protocol.
- Performed unit, integration and system tests.

Project 3: Hardware Abstraction Layer 3 (HAL-3) & Device Layer Interface (DLI)

- Installed HAL3 validation environments on Linux and DLI developed by NDS.
- Customised the Linux kernel and integrated Sagemcom drivers.
- Developed an automation tool to install the validation environment.
- Wrote technical documentation and datasheets.
- Performed unit tests and driver analysis for Sagemcom components.

Tech environment: ST5100 / ST7105 platform, Sagem STBs, ST Micro Connect, Spooler, Hex Editor, Splitter Combo, StreamExpress