

Fernando Cobos

Senior Integration & QA Engineer | QA Architecture | Automation | CI/CD | Observability

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Telecommunications Engineer with 10+ years of experience in QA automation, QA architecture, system integration, E2E validation, CI/CD, observability, and release readiness across complex distributed platforms. Strong background designing QA strategies and building automation frameworks from scratch, including test architecture definition, testing layers, quality gates, traceability models, reporting workflows, quality metrics and validation processes for distributed systems, APIs, backend services, devices, and infrastructure components.

Experienced in hands-on technical QA across frontend, backend, infrastructure, monitoring, and production-facing environments. Comfortable working with engineering, DevOps, product, and external teams to establish scalable QA frameworks, improve test reliability, reduce release risk, strengthen observability, and provide quality visibility through dashboards, KPIs, logs, and release reporting. Strong focus on using quality metrics and data-driven insights to support release decisions, identify risks, prioritize improvements, and increase confidence in production readiness. Recently involved in AI-related feature demos and validation activities.

CORE SKILLS

E2E Integration & Testing • QA Automation • CI/CD • QA Architect • Quality Gates • Release Validation • Distributed Systems • Test Strategy & Traceability • API Testing • Regression Testing • Release Readiness • Root Cause Analysis • Python • ETL • Observability • Monitoring • Jenkins • Ansible • RobotFramework • Selenium • Docker • Logstash • Filebeat • Elasticsearch • Kibana • Grafana • Graphite • Jira • Xray • GitOps • Bitbucket • Microservices • Zabbix • RabbitMQ • MySQL • PostgreSQL • IPTV / OTT / CPE • Infrastructure • Network • Troubleshooting

PROFESSIONAL EXPERIENCE

Senior Integration & QA Engineer

Liberty Global | Amsterdam, Netherlands | Jan 2024 – Oct 2025

- Ensure QA Coverage across 3 environments, 5 countries, multiples devices, maintaining end-to-end platform stability.
- Architected an in-house Video Experience Lab from scratch, covering all E2E environments, tenants, and devices.
- Designed Jira dashboards and validations reports, reducing manual reporting time by 40%.
- Proactively monitored fix versions and critical updates, preventing bottlenecks and minimizing platform release delays.
- Prevented lost tracking by mapping new features/devices to XTestPlans, guaranteeing 100% E2E traceability.
- Automated Wiki release reports (PUS, TUS, Bugs) via Jira integration, accelerating management decisions.
- Drove strategic decisions and platform reliability via KPI analysis using Grafana, Kibana, and Looker.
- Supported AI-driven product validation and demos (Super Search) for new user-facing intelligent search capabilities.

Integration & QA Automation Engineer

Liberty Global | Amsterdam, Netherlands | Jan 2018 – Dec 2023

- Engineered HA QA network infra for CPE/OTT across multiple environments, tenants and devices.
- Integrated deployments and rollbacks in CI/CD via Jenkins and Ansible, cutting downtime by 35%.
- Maintained uptime for containerized environments across Linux, Docker Swarm, RabbitMQ Cluster & MySQL.
- Architected and integrated E2E testing frameworks via RobotFramework for CPE (IPTV/OTT).
- Managed infrastructure, networks, and deployment pipelines for QA framework releases (CPE/APPs).
- Accelerated incident resolution (MTTR) by 25% leveraging Elasticsearch logs and Root Cause Analysis (RCA).
- Component Owner for Obelix (HDMI capture, IR, PDU, DNS, DHCP, Routing), enabling E2E video QA monitoring.
- Led 12-engineer Agile QA team in Jira, boosting sprint delivery efficiency and overall quality.
- Automated E2E reporting workflows utilizing Python scripts, ELK stack, Jira, Wiki, and auto-notifications.
- Reduced flaky tests & false positives by optimizing test reliability via Kibana and Mocha deep-dive log analysis.

QA Automation Engineer

Optiva Media (Client: Liberty Global) | Amsterdam, Netherlands | Mar 2017 - Dec 2017

- Developed E2E test cases scripts for web (Selenium), devices and backend APIs (Postman), increasing release reliability.
- Planned and Executed regression, release validation, & RCA across full-stack layers, cutting critical bugs.
- Collaborated with Dev teams to guarantee 100% E2E coverage, issue reproduction, and quality assurance workflows.
- Drove regression testing and defect analysis across agile deliveries, ensuring stable releases.
- Validated seamless CPE firmware upgrades (ACS), backend APIs, microservices, and internal tools.
- Contributed to stable releases through automated, exploratory, and API validation with cross-layer troubleshooting.

Monitoring Tools & KPI Engineer

TCP, a UST Global Company (Client: Telefonica I+D) | Madrid, Spain | Nov 2015 - Apr 2017

- Engaged in technical validation, troubleshooting, and service support for diverse platform layers.
- Worked with engineering & operations teams on deployment support, environment stability, and platform continuity.
- Architected HA Graphite monitoring systems, ensuring 24/7 streaming error tracking.
- Led Witbe CPE/OTT testing, optimizing Zapping time and Video Quality (QoE) KPIs for seamless streaming.
- Configured Zabbix monitoring & alerts, reducing HA systems incident response time by 30%.

Monitoring Tools Intern – Global Video Unit (GVU)

Telefonica I+D | Madrid, Spain | Jul 2015 - Oct 2015

- Supported the development and maintenance of monitoring tools and IT activities for the Global Video Unit.
- Assisted with operational tooling tasks aimed at improving service visibility and day-to-day support.
- Implemented CI/CD (Puppet/YAML) via GitOps (GitLab/Bitbucket) & enhanced debugging via Splunk logs.

Service Management Intern – Global Video Platform (GVP)

Telefonica I+D | Madrid, Spain | Nov 2014 - Jun 2015

- Facilitated service management operations and follow-up tasks for the Global Video Platform.
- Assisted with incident coordination, reporting, and SLAs within the Video platform environment.

Communications Intern

Unisys | Madrid, Spain | Oct 2013 - Jun 2014

- Resolved Cisco/HP network incidents across routers, switches & firewalls, ensuring 99.9% AENA uptime.

EDUCATION

MS in Telecommunications Engineering - CEU San Pablo University

Master's Thesis (Honors): Hardware/software integration for Arduino-based GPS tracking systems.

EXTRA

Languages Spanish — Native | English — Professional Working Proficiency

Domains • QA Architecture • Quality Engineering • DevOps • CI/CD • Infrastructure • Distributed Systems
• Microservices • QA Frameworks • Observability • IPTV/OTT & Video Platforms • CPE/STB Validation
• Containerized Environments • Network

Methods • E2E Validation • Test Strategy • Shift-Left Testing • Risk-Based Testing • Unit Testing • API Testing
• Integration Testing • Contract Testing • Regression Testing • Smoke Testing • Performance Testing
• Static Code Analysis • Mocking & Test Doubles • Test Data Management • CI/CD Quality Gates
• Release Readiness • Observability-Based Testing • Root Cause Analysis • Monitoring • Agile QA