



Oussama ABDEL FATTAH

Cybersecurity Engineer — OT/ICS Security Specialist

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PROFILE

Cybersecurity engineer specialized in the protection of industrial control systems (OT/ICS) and critical infrastructure. Dual OT audit experience on real railway systems — **DataProtect** (Critical Infrastructure Cybersecurity BU) and the **ONCF Group** — with a strong command of **IEC 62443**, **MITRE ATT&CK ICS** and **NIST CSF**. I am seeking an OT/ICS security engineer role (audit, industrial pentest, OT SOC) in Morocco or Europe.

TECHNICAL SKILLS

OT/ICS Security: IEC 62443 • Purdue / ISA-95 • Modbus / OPC-UA • SCADA • threat modeling

Audit & GRC: ISO 27001 • NIST CSF • MITRE ATT&CK / D3FEND • STRIDE / DREAD

Offensive / Red Team: Kali • Metasploit • Burp Suite • Nmap • exploitation

Detection & SIEM: Splunk • Zeek • Nozomi • Wireshark • threat hunting

DevOps & Infrastructure: Docker • Git • CI/CD • pfSense • Linux • Windows Server

Development: Python • JS/TS • C/C++ • SQL • React • FastAPI

PROFESSIONAL EXPERIENCE

Final-Year Project — Cybersecurity Engineer OT/ICS

February — June 2026 • 4 months

DATAPROTECT — Critical Infrastructure Cybersecurity BU

Casablanca / Rabat, Morocco

- Designed **CyberRail-OT**, a railway ICS/OT cyber range: digital twin of an ETCS corridor, 4-zone Purdue architecture, 22 Docker containers.
- Red Team** campaign (17 scenarios) mapped to MITRE ATT&CK ICS; kill chain neutralized in under 65 seconds after hardening.
- IEC 62443** audit raising the security level from **62 to 88/100 (SL-2)**; reusable 46-control audit framework.
- Developed an **application-layer (L7) Modbus proxy** blocking dangerous commands; monitoring with Splunk / Zeek / Nozomi.

Advanced Internship — Industrial Control Systems (OT) Security

June — July 2025 • 2 months

ONCF Group — National Railways Office

Rabat, Morocco

- Full security audit of a critical railway SCADA system (20+ OT devices).
- Multi-criteria assessment (ISO 27001, IEC 62443-3-3, NIST CSF, MITRE ATT&CK ICS, STRIDE) and cyber-physical risk analysis using the Purdue / ISA-95 model.
- Prioritized 15+ critical vulnerabilities (DREAD); audit report and compliance roadmap validated by technical management.

Introductory Internship — Systems & Network Administration

July 2024 • 1 month

Transdev

Salé, Morocco

- Hardened a production IT infrastructure (OWASP, CIS Benchmarks); centralized monitoring with automated alerting.
- Raised critical-service availability from 95% to 99.2%.

Discovery Internship — Back-End Developer

July 2023 • 1 month

Highness

Kénitra, Morocco

- Secure RESTful back-end modules (PHP / Laravel): JWT authentication, strict input validation, CSRF / XSS / SQLi protection.

TECHNICAL PROJECTS

Secure File Transfer

AES-256-GCM encryption • Zero Trust

Secure file-transfer platform: AES-256-GCM encryption, WebAuthn/FIDO2 + MFA authentication, Zero Trust architecture and GDPR compliance (auto-expiry, RBAC, rate limiting).

PentestMaster CLI

Python framework • AI/ML

Automated penetration-testing framework: 80+ offensive/defensive modules, ML-based target prioritization, professional multi-format reporting.

AgentStrike

AI-agent red-teaming CLI • OWASP LLM/ASI • MITRE ATLAS

Red-teaming CLI for AI agents and LLM applications: 10 attack modules (prompt injection, jailbreak, excessive agency) mapped simultaneously to OWASP Top 10 for LLM, OWASP Top 10 for Agentic Applications and NIST AI RMF; adaptive LLM attacker, MCP audit, SARIF export for CI/CD. 187 tests, 97% coverage.

SENTINEL-OT — Crisis Room

OT/ICS cyber crisis simulator • IEC 62443 / NIS2 / ATT&CK ICS

Crisis-simulation platform for critical infrastructure: 9 real sector scenarios (rail, energy, water, healthcare...), timed decisions mapped to MITRE ATT&CK for ICS, server-side anti-cheat score replay, real-time team mode. — potential-pilot-suite.lovable.app

EDUCATION

State Engineering Degree — Computer Engineering

2021 — 2026 • Graduated

Groupe ISGA — Networks, Systems & Security track (IRSS)

Rabat, Morocco

Baccalaureate — Mathematical Sciences A

2020

Lycée Al Mansour Eddehbi

LANGUAGES

Languages: Arabic — Native • French — Bilingual (C1) • English — Professional (B2+)

CERTIFICATIONS & CTF

In progress: CISSP, CompTIA Security+, CEH • **Technical:** LinkedIn Learning, Cisco, IBM, Google, Microsoft

CTF & threat watch: HackTheBox • TryHackMe • CVE / CERT / Threat Intelligence