

Emmanuel Konan

Cybersecurity Consultant | Applied Cryptography & IT/OT/IoT Security

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France | French; English - TOEIC 910/990, Linguaskill C1.

CentraleSupélec engineer working on technical security audits, industrial and embedded systems, and cryptographic infrastructure. Experience with PKI/HSM, PKCS#11, EBIOS-RM risk analysis and ISO/IEC 27001 internal audits. Coauthor of the EAP-PSK-256 Internet-Draft.

PROFESSIONAL EXPERIENCE

Auditor & Cybersecurity Consultant - IT/OT/IoT

Ornisec | 2024-Present

- Conduct risk analyses using EBIOS-RM and contribute to architecture, configuration, source-code, organizational and physical security audits in PASSI engagements.
- Perform internal ISO/IEC 27001 audits and work on security specifications, qualification and audits of industrial and embedded equipment.
- Act as a cybersecurity referent for OT/IoT equipment at Enedis, with work spanning PKI/HSM, PKCS#11, cryptography and equipment inventory/mapping.

Embedded Systems Cybersecurity Audit - Work-study

Enedis | 2023-2024

- Worked on embedded-system security for the electricity distribution network, combining risk analysis with a defense-in-depth approach.
- Contributed to work involving HSMs, PCB penetration testing, power-line communication, and Python/Bash scripting.

Losses & Fraud Project Manager - Work-study

Enedis | 2021-2023

- Implemented data-informed procedures addressing non-technical losses and electricity consumption fraud; created Excel/VBA KPIs for operational monitoring.
- Followed the Data Protection Impact Assessment as a business owner and drafted personal-data passports for the DPO as a business analyst.

PUBLIC CRYPTOGRAPHY CONTRIBUTION

EAP-PSK-256 - Cryptographic protocol contribution

Coauthor of an individual Internet-Draft proposing an evolution of EAP-PSK: AES-256, key derivation based on NIST SP 800-108, and contributions from both peer and server randomness. Work in progress; not an RFC or an IETF-endorsed standard.

IETF Datatracker: draft-eap-psk-256

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Technical capabilities, education & leadership

TECHNICAL CAPABILITIES

Cryptography & digital trust

PKI, HSM, PKCS#11, digital certificates, EAP, AES and elliptic-curve cryptography.

Security & risk

IT/OT/IoT security, technical audits, EBIOS-RM, ISO/IEC 27001, defense in depth.

Systems & engineering

Linux (RHEL, Debian, Rocky), Active Directory, C, Python, Bash, Java, Docker/Podman, GitHub Actions.

Additional tools

SQL, R, Excel/VBA, Proxmox/LXC, Jenkins, Kubernetes, Flask and React.

EDUCATION

Engineering Degree - Computer Science & Cybersecurity

CentraleSupélec | 2021-2024

General engineering curriculum spanning computer science, cybersecurity, electronics, data/AI and management.

Visiting Student - Advanced Hardware Protection, Master 2 curriculum

Université de Rennes | 2023-2024

Coursework in embedded-system attacks, including side channels, glitching and JTAG.

Preparatory Classes - PTSI/PT

Saint Aubin La Salle | 2019-2021

Mathematics, physics and engineering sciences.

CERTIFICATIONS

ISO 27001 Lead Auditor (2026) | eJPT (2025)

LEADERSHIP & COMMUNITY

African Engineers Network - Business Development Lead & IT Consultant

2024-Present

Client needs qualification, technical and commercial proposals, project scoping, client relations and web delivery within the advisory initiative.

Elit Club - Digital Club Member

2025-Present

Webinar preparation and IT/cybersecurity outreach supporting access to digital skills in Africa.

Rézo Metz-Rennes Fédérés - Treasurer & IT Support

2021-2024

Contributed to campus network maintenance and IT services across Wi-Fi, Ethernet and fiber.