Lorentzo Donné

Master's Engineering Student – Computer Engineering, Cybersecurity
Seeking an end-of-studies internship starting August–September 2027
Expected graduation: December 2027 – January 2028
Montréal, Canada | Bouches-du-Rhône, France (from summer 2027) | lorentzo.donne@gmail.com
linkedin.com/in/lorentzo-donne | ldonne.fr | github.com/Xayon98

Summary

Curious about how systems work on the inside: understanding how they are built to find where they give way. Looking for an environment where development and security move forward together, on projects with real stakes.

Education

Master's in Computer Engineering (double degree), Polytechnique Montréal (Montréal, Canada) Sep 2026 – present
- Web application penetration test, Linux server hardening, AI system governance audit, domain-specific language (DSL) in JetBrains MPS

Engineering Degree – Advanced Systems and Networks, Grenoble INP – Esisar, UGA (Valence, France) Sep 2024 – present
- Built a compiler targeting RISC-V and an interpreter for our own language with ANTLR4
- Developed a RISC-V emulator that loads and executes binaries

Preparatory Class – Math, Physics, CS, Lycée Thiers (Marseille, France) 2022 – 2024
- Research project: racing line optimization with Particle Swarm Optimization, tuned by simulated annealing (64 cores)

Experience

Freelance Developer, INETI (IT consulting, remote) 2026 – present
- Follow-up of the DLP project: turning the prototype into a product (modular architecture, user-story backlog, technology and competitive watch)
- Developing a cross-platform agent with a plugin architecture in Rust; technical documentation

Industrial Project – DLP, INETI, with Grenoble INP – Esisar (Valence, France) Jan 2026 – Jun 2026
- Designed a modular DLP proof of concept: personally identifiable information (PII) detection and web gateway filtering
- **Innovation Award** at Esisar, across all of the school's industrial projects

Technical Intern – Hardware Security, STMicroelectronics (Rousset, France) Jun 2025 – Aug 2025
- Side-channel attacks (SPA, DPA, CPA) on AES-128: full key recovered in 40 traces despite jitter
- Bypassed hardware countermeasures and improved the attack tooling (Python, Jupyter)

Treasurer, Board Member, Esisar Student Association (Valence, France) May 2025 – 2026
- Managed the association's budget: accounting, expense tracking and project coordination
- Esisar won the Valence Student Challenge: managed sports teams and training, theme design, built a parade float and a two-storey stand, budget and schedule

Personal Projects

Self-Hosted Infrastructure 2024 – present
- Proxmox VE server (LXC, ZFS) hosting about fifteen services: Nextcloud, Gitea, Immich, Grafana
- Security: Caddy reverse proxy, intrusion detection and blocking with CrowdSec, Headscale/Tailscale private network segmented by ACLs, key-only SSH access
- Detected and handled a compromise (RCE on Gitea): analysis, containment, cleanup, secret rotation and patching

Portfolio – ldonne.fr 2025 – 2026
- Bilingual site built with Astro and TypeScript, self-hosted with no third-party resources; security headers (strict CSP, HSTS preload, Permissions-Policy)

Skills

Security: web penetration testing (OWASP Top 10, Burp Suite, Nmap, Wireshark), side-channel analysis (SPA, DPA, CPA, ChipWhisperer), fault injection, applied cryptography, Linux hardening, DLP architecture, CrowdSec
Audit & Compliance: IT security auditing, ISO 27001/27005, NIST CSF, GDPR, ANSSI guidelines, AI governance
Programming: C, Python, Rust, Java, OCaml, TypeScript/JavaScript, SQL, Bash
Systems & Networking: Linux (Fedora, Debian), Proxmox VE, Docker, Kubernetes (basics), Caddy, Tailscale/Headscale, Git
Web & Modeling: Astro, SvelteKit, Node.js, TailwindCSS, UML, OCL, ANTLR4, JetBrains MPS

Languages

French: native | **English:** C1 (TOEIC 975) | **Italian:** intermediate

Interests

Photography (gallery on ldonne.fr) | **Motorcycling** and motorsports | **Weight training**, skiing and rock climbing