Louis BAFFOUR

Master of Science in Computer Science

Diplôme d'Ingénieur program - Expected in 2027

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PROFILE

Versatile and results-oriented Engineering student specializing in **Computer Science and Electronics**. Proficient in **cross-functional problem-solving** and full lifecycle project development, with proven experience in integrating disparate technologies to deliver robust, scalable solutions. Seeking to apply skills in **system architecture design and performance optimization** to help companies tackle complex challenges and contribute to innovative projects.

EDUCATION

ESEO — Diplôme d'Ingénieur (Master's Degree equiv.) — Angers, France
Specializing in Electronics, Computer Science, and Telecommunications. — *Sept 2022 – July 2027 (Expected)*

KU Leuven — Exchange Semester — Leuven, Belgium
Technological Engineering coursework conducted entirely in English. — *Feb 2024 – July 2024*

SKILLS

AI & Machine Learning: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy
Embedded & Electronics: C, C++, VHDL, STM32, ARM Cortex-M, RISC-V, FPGA, LTspice
Software Development: Python, Java, JavaScript, SQL, Bash, Git
Web & Cloud: React, Node.js, HTML/CSS, MySQL, Docker, Microsoft Azure
Networking & Cybersecurity: Wireshark (Packet Analysis), TCP/IP Suite (HTTP/S, DNS, TCP/UDP)
Soft Skills: Ownership & Proactivity, Communication, Teamwork, Problem-solving, Adaptability
Languages: French (Native), English (C1 - Full Professional Proficiency), Spanish (B1 - Intermediate)

PROFESSIONAL EXPERIENCE

AI & Embedded Systems Intern — Paris, France
SGA - Ministry of Defence — *Sept 2025 – Present*
- Designing and developing an innovative device for defense applications, integrating embedded Artificial Intelligence on a dedicated hardware card.
- Responsible for the full project lifecycle, from hardware/software architecture design to AI model selection and optimization for embedded constraints.
- Implementing robust connectivity solutions with a focus on data security and confidentiality.

Founder & Operator (Self-Employed) — Angers, France
CleanGenius — *Oct 2024 – Present*
- Launched and manage a cleaning service company for private and public sector clients.
- Oversee all business operations, including client acquisition, service delivery, and administrative management, demonstrating strong organizational and entrepreneurial skills.

Train Commercial Service Agent (ASCT) — Nantes, France
SNCF Voyageurs — *Summer 2023*
- Ensured the safety, security, and service quality for thousands of passengers on regional trains (TER), holding a sworn officer status from the Angers Judicial Court.
- Completed a rigorous 1.5-month certification in safety protocols, security procedures, equipment management, and commercial operations.

LEADERSHIP & VOLUNTEERING

Member, Student Union (BDE) & Sports Office | *ESEO* — 2024 – Present
- Co-organize student life events and support school-wide initiatives.

Member, Unit Against Harassment & Violence | *ESEO* — 2024 – Present
- Provide confidential support to students and contribute to prevention campaigns.

AWARDS & CERTIFICATIONS

1st Prize Winner, Public Speaking Competition | *ESEO* — Jan 2025
Certified in Project Management | *MOOC Gestion de Projet* — Feb 2023
Aeronautical Initiation Certificate | *Brevet d'Initiation Aéronautique* — Jun 2021