

# 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.)

*Specializing in Electronics, Computer Science, and Telecommunications.*

Angers, France

*Sept 2022 – July 2027 (Expected)*

#### KU Leuven — Exchange Semester

*Technological Engineering coursework conducted entirely in English.*

Leuven, Belgium

*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

*SGA - Ministry of Defence*

Paris, France

*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)

*CleanGenius*

Angers, France

*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)

*SNCF Voyageurs*

Nantes, France

*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