HÉNOC MUKUMBI

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Graduating student in 2026 from Université de Technologie de Compiegne.

EXPERIENCE

LGM Ingénierie

January 2025 - Present

Apprenticeship - Full-Stack Web Developer

Vélizy-Villacoublay, France

- · Designed and developed a web application to generate validation reports for automotive Electronic Control Units (ECUs), replacing a previous third-party solution. The application was built using Python (Django), HTML, CSS (Bootstrap), JavaScript, and HTMX.
- · Collaborated with the software development team, working closely with the validation service lead to define weekly objectives and align with project specifications.

LGM Ingénierie

August 2024 - January 2025

Apprenticeship - Automotive Validation Engineer

Vélizy-Villacoublay, France

- · Conducted validation testing on automotive ECUs, focusing on lifecycle phases and physical layers based on Stellantis requirements.
- · Developed expertise in CAN and LIN protocols, analyzing their applications in vehicle communication networks.
- Utilized tools such as CANoe, oscilloscopes, multimeters, and CAN disturbance modules to assess ECU performance and compliance.
- · Improved test planning and execution efficiency, optimizing workflow to meet project deadlines.

LGM Ingénierie

August 2023 - July 2024

Apprenticeship - Software Test Engineer

Vélizy-Villacoublay, France

- · Performed unit testing on OCEAN software modules, a communication framework ensuring reliable data exchange between automotive ECUs.
- · Conducted on-target unit tests to validate software functionality in real-world conditions.
- · Reviewed code compliance with LGM Ingénierie standards ensuring quality and robustness.

CNRS - Université Paris Cité

April 2023 - June 2023

Internship - Embedded Electronics and Systems Technician

Paris, France

- · Designed and debugged PCBs using Ultiboard integrating temperature sensors for clean room monitoring.
- · Implemented a Si4432 RF for wireless data transmission.
- · Migrated firmware from ATmega328P to PIC18F26J11 optimizing the temperature regulation system in C/C++.

EDUCATION

Université de Technologie de Compiègne (UTC) - Sorbonne

June 2026

Master in Computer Science

Specializing in Embedded Computing and Autonomous Systems

Université Paris-Saclay IUT de Cachan

June 2023

Associate's Degree in Electrical Engineering and Industrial Computing

Average: 15.0/20

TECHNICAL STRENGTHS

Computer LanguagesC, C++, Python, VHDL, JavaScript, HTML, CSSEmbedded SystemsARM Mbed, Arduino, Raspberry Pi, Microchip PICCommunication ProtocolsSPI, I2C, Ethernet, CAN Bus, LIN Bus, RS232, UARTPCB Design & CADKiCad, Ultiboard, Altium Designer, SolidWorks

Web Technologies Node.js, Express.js, Django, Flask

DatabasesPostgreSQL, SQLiteOperating SystemsWindows, macOS, UbuntuWorkflow & ToolsGit, GitHub, GitLab