

Nobel DJESSOU

AI IoT Engineer | Seeking Internship

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Profile

Engineering student in a Master's program focused on Connected Objects (AI IoT). Seeking an internship to apply my skills in Machine Learning and real-time connected systems development.

Professional Experience

AI IoT Development Intern

May 2025 – Aug 2025

Nagarro

Strasbourg, France

- Studied and implemented a **multimodal generative AI** solution for automatic sales proposal generation, reducing processing time by 30%.
- Deployed an automation pipeline using **N8N** and the **GPT-4** API.
- Configured **PLCnext** controllers and integrated IoT protocols (OPC UA) within **Docker**.

Automation Process Intern

Apr 2024 – Aug 2024

HINFACT

Toulouse, France

- Developed a complete process automation system, adopted by three teams.
- Contributed to motion detection algorithms for the final product.
- Implemented a continuous integration pipeline using **Notion** and **GitLab CI/CD**.

Automation Freelancer

Jan 2023 – Aug 2023

Make / Airtable

Remote

- Automated content generation (50 articles/week) using the **OpenAI** API.
- Designed and deployed custom CRM solutions and onboarding processes for 5 SMEs.

Education

M.Sc. Signal and Image Processing

2024 – 2026

University of Poitiers

Poitiers, France

- Connected Objects Track:** Machine Learning, Computer Vision, Deep Learning, IoT Architectures, Edge AI.

B.Sc. Engineering Sciences

2022 – 2024

University of Poitiers

Poitiers, France

- Connected Objects and Automation Track.**

Preparatory Classes (MPSI)

2020 – 2022

Institute of Mathematics and Physical Sciences

Benin

Academic Projects

- Smart Collar (Health IoT):** Designed a collar for real-time tracking of vital signs and GPS. Implemented data processing using **Edge Computing**.
- Autoencoder (Deep Learning):** Image compression on Fashion-MNIST dataset with **PyTorch**. Optimized architecture to maximize SSIM and minimize MSE.
- Weather Station (Embedded):** Developed a weather data acquisition system on an **STM32** board with Sparkfun/ST sensors.
- AI Application on STM32N6:** Implemented AI models on new ST NPU boards.

Technical Skills

AI Vision: PyTorch, TensorFlow, OpenCV, Scikit-learn, Pandas, NumPy, CNN, Autoencoders.

IoT Embedded: STM32, Nordic nRF, Zephyr RTOS, PLCnext, OPC UA, C/C++.

Programming: Python, JavaScript (Node-RED, N8N).

DevOps: Docker, Kubernetes, CI/CD (GitLab CI, GitHub Actions).

Soft Skills

- Communication:** Effective coordination between technical and product teams (HINFACT).
- Adaptability:** Managed concurrent AI, IoT, and automation projects (Nagarro, Freelance).
- Problem-Solving**
- Creativity Curiosity:** Active technology watch and rapid prototyping.

Languages

- French:** Native
- English:** Professional Proficiency (B2)
- Fongbe:** Native

Certifications

- Make Partner: Level 4 Expert (2023)
- nRF Connect SDK: Fundamentals (2025)