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Graduated Engineer in Medical Systems and AI. Seeking a PhD position engineer position in AI for health.

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## EDUCATION

2022-2025 • Master of Engineering in Medical Systems and AI	<i>ESIGELEC - Rouen, FRANCE</i>
2020-2022 • Integrated Preparatory Class – physics and engineering sciences	<i>ESIGELEC - Rouen, FRANCE</i>
2019-2020 • Baccalauréat in Physics-Chemistry	<i>Lycée Saint Jean Baptiste de la Salle, Rouen</i>

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## PROFESSIONAL AND ACADEMIC EXPERIENCES

### End-of-Studies Internship – AI Engineer, Product and Process Data Analytics Team, GlaxoSmithKline Vaccines Belgium (GSK)

*April 2025 – October 2025*

- Developed a confidential AI-based proof of concept for process monitoring in cell culture, aiming to reduce human bias and increase vaccine production yield.
- Conducted exploratory statistical analysis and literature review to identify methods and critical parameters, in close collaboration with domain experts under strict data confidentiality constraints.

### Research Trainee – Project MR-IQ, TransRad team, Luxembourg Institute of Health (LIH)

*July – August 2024 | Supervisor: Dr. Keunen | Co-author of a scientific paper*

- Preparation of a medical dataset into HDF5 architecture using Python algorithms for image quality assessment.
- I processed 600 DICOM abdomen/brain scans (MRI, CT-scan) by applying controlled degradations (blur, contrast, artifacts) on Linux/VScode, supporting a clinical study using MR-IQ metrics that resulted in co-authored research (publication expected 2026).

### Scholar Research Project – Robot Controlled by Voice Recognition and Computer Vision

*November 2024 – January 2025*

- I conducted bibliographic research using academic repositories (ArXiv) and search engines (Google Scholar) in order to design a viable multimodal approach coupling voice recognition (Vosk), computer vision (YOLOv8) and robot control (RTDE, 30K€ UR5e).
- I authored an article for the school journal (available on my Portfolio) describing results (98% precision for voice recognition, 100% object recognition) and potential improvements for future experiments (robot part).

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## SKILLS

### IT Skills:

- Programming: Python (OpenCV, YOLOv8, Tensorflow, PyTorch, Pandas, Matplotlib), MATLAB.
- Development Tools: Github, VScode.
- Operating Systems: Linux (Ubuntu), Windows.
- Datas : SQL, DataProcessing

### Certifications and norms :

- Supervised Machine Learning: Regression and Classification (Coursera).
- Advanced Learning Algorithms (Coursera).
- Norms ISO 13485, ISO 14971.

### Mathematics & Physics :

- Algebra, Analysis, Probability and Statistics.
- Solid and Fluid Mechanics, Dynamics.
- Electromagnetism, Thermodynamics.

### Languages:

- French: Native.
- English: Professional proficiency.
- Spanish: Upper-intermediate proficiency.

### Soft Skills:

- Autonomy, Analytical thinking.
- Strong intellectual curiosity.
- Teamwork & Project Management.

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## INTERESTS

- Football: 8 years in a club, team captain, president of the football association ASFT76.
- Judo: 12 years in a club, youth competition.
- Competitive Spirit: Winner of the Med'Ing Health Hackathon 2024, organized by Aptar Pharma.
- Music: Played guitar at the conservatory for 7 years.