

DORIAN LAMOUILLE

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EDUCATION

MASTER OF SCIENCE: ROBOTICS AND COMPUTER ENGINEERING

UNIVERSITY OF TARTU, ESTONIA

- Master's thesis in AI and robotics
- Multiple machine learning projects (convolutional neural network , computer vision)

2024-2026

MASTER OF SCIENCE: MECHANICS AND ELECTRONICS

ECAM LASALLE, FRANCE

- Specialisation in Robotics and Automation
- Hackathon and multidisciplinary engineering projects

2020-2026

EXPERIENCES

MASTER'S THESIS

UNIVERSITY OF TARTU, ESTONIA

- Developed a benchmarking framework for evaluating Large Language Models (LLMs) on edge devices in educational environments.
- Conducted a comprehensive evaluation of more than 20 state of the art LLMs, identifying the two most suitable candidates based on performance, efficiency, and educational applicability.
- Designed and implemented an enhanced LLM architecture to improve accuracy, responsiveness, and user experience for educational use cases.
- Performed human-subject evaluations and statistical analyses to assess the perceived effectiveness and usability of the proposed architecture.
- Authored and presented a research paper at the ARSO 2026 Conference, Vienna, Austria.

2025-2026

AUTOMATION ENGINEERING INTERN

BAXTER MEYZIEU, FRANCE

- Designed and implemented a computer vision solution for an automated keying process, validating system robustness through statistical performance analysis across standard and edge-case scenarios.
- Developed and modified PLC control logic using Xsoft-CODESYS to enhance system functionality and operational reliability.
- Contributed to the successful deployment of a robotic production cell by conducting FAT and SAT activities and ensuring compliance with pharmaceutical manufacturing standards and validation requirements.

2023

PROJECTS

DELTA X ROBOTICS COMPETITION

UNIVERSITY OF TARTU, ESTONIA

- Collaborated within a team of four engineers to design and develop a fully autonomous pick and throw robotic system.
- Implemented Python based control and computer vision algorithms, achieving a 100% ball detection and pick success rate during testing and competition.
- Developed automated targeting and throwing functionalities to maximize system performance and reliability.
- Applied Agile development practices, including sprint planning and task tracking, while utilizing Git for version control and collaborative software development.

2024

FEST'INNOV HACKATHON

ECAM LASALLE, FRANCE

- Designed and implemented an innovative solution within a 24 hour innovation challenge organized in collaboration with Schneider Electric.
- Worked in a cross-functional team involving engineers, sales professionals, innovation specialists, and engineering students to transform business and technical requirements into a viable solution.
- Demonstrated rapid problem-solving, teamwork, and project execution skills in a high-pressure, time-constrained environment.

2022

FANUC COMPETITION

ECAM LASALLE, FRANCE

- Designed and simulated an automated robotic cell, optimizing production cycle time to under 20 seconds
- Developed a robotic cell simulation in FANUC software within strict technical and budget constraints, collaborating in a 4 member team.

2021

SKILLS

Languages : French (Native), English (C1 - IELTS 7.0)

Programming languages : Python, SQL

Frameworks : ROS, Pytorch, Airflow, Docker, Ollama, Git, RAG, PostgreSQL, LangGraph, AI agent orchestration, LLM, Excel, Power BI