

Final year Master's student in Microengineering at EPFL and CentraleSupélec.

With expertise in microsystems, nanotechnology, and computational science, I bring strong curiosity, organization, and autonomy to my work. I am eager to contribute to high-tech, fast-paced projects and am seeking a 6-month internship starting in **February 2026**.

EDUCATION AND ACADEMIC PROJECTS

2025 (2 months) Lausanne, CH	Laboratory of Applied Photonic Devices (LAPD), EPFL <i>Project on Compact Multi-Plane Spatial Light Modulation for Optical Information Processing</i> → Machine learning, Pytorch, lasers, optics, CUDA, SLURM Developed and upgraded a compact optical system combining laser image processing with neural networks for enhanced optical transformations. <ul style="list-style-type: none">Aligned and optimized a hybrid optical-computational setup using spatial light modulatorsDesigned and tested deep learning diffusion models in PyTorch to guide optical processing
2024 – Lausanne, CH	École Polytechnique Fédérale de Lausanne, EPFL <i>Master's degree in Microengineering, minor in Computational Science and Engineering</i> → Optics, photonics, MEMS, AI, nanotechnology, microfabrication, HPC, quantum computing and simulations <ul style="list-style-type: none">Development of an autonomous mobile robot: implementation of ML algorithms on embedded systems with computer visionLaboratory of Hybrid Photonics (HYLAB): Electrode Optimization for High-Q Resonators Using Field-Based Surface Analysis and CST Simulations
2022 – 2024 Saclay, FR	CentraleSupélec – Université Paris-Saclay <i>Double degree, engineering curriculum</i> Highly selective double degree between EPFL and CentraleSupélec: 1st and 2nd year of the engineering curriculum, followed by 2-year Master's degree at EPFL. → Mathematics, engineering, energy, finance, cloud computing, quantum physics, nuclear engineering, control <ul style="list-style-type: none">Construction and development of an autonomous drone: following complex routes and retrieving objectsPrediction of a city's electricity consumption using data science and machine learning (EDF partnership)Data analysis and development of prediction models for catenary lifting (SNCF partnership)
2019 – 2022 Lausanne, CH	École Polytechnique Fédérale de Lausanne, EPFL <i>Bachelor's degree in Mechanical Engineering</i> → Programming, dynamical systems, numerical analysis, material science, fluid mechanics Average: 5.41/6

PROFESSIONAL AND ASSOCIATIVE EXPERIENCE

2024 – Lausanne, CH	Association EPFL Spacecraft Team <i>Team leader – Ground Segment</i> Student association focused on the design, development, and launch of innovative satellite and space related projects. Lead a team of 8 to develop and operate ground stations for satellite communications. <ul style="list-style-type: none">Develop and assemble an X-band antenna, the first student-operated system of its kind.Design and implement the antenna's control software.Contribute to a digital twin for satellite modelling, enabling faster design iterations and performance optimization.Perform trade-off analyses on critical satellite parameters, guiding key design decisions and improving mission reliability.
2022 – 2024 Saclay, FR	Association Forum CentraleSupélec <i>Event & Quality Manager</i> Student association organizing a major business forum with 200+ companies and a turnover of €1.3 million. <ul style="list-style-type: none">Manage relations with partner companies and coordinate event logistics for exhibitors and participants.Ensure quality management of the event, including preparation of the annual audit and compliance with ISO standards.Develop automation algorithms to streamline repetitive tasks, reducing workload and improving team efficiency

2021 – 2025 Lausanne, CH	École Polytechnique Fédérale de Lausanne, EPFL <i>Teaching Assistant</i>
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SKILLS AND INTERESTS

Languages	French: native	English: C1	Italian: A2
Programming	Python (Numpy, Pandas, Scikit, Pytorch, OpenCV)	C – Git – SQL – C++ – Bash – CUDA – MPI	
Software	MS Office – Matlab – LabVIEW – Catia – Arduino – Docker – Raspberry Pi		
Sports	Volleyball	Basketball	Kitesurf
Interests	Astronomy	Science	Mythology
			Travel