

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	<b>Laboratory of Applied Photonic Devices (LAPD), EPFL</b> <b>Project on Compact Multi-Plane Spatial Light Modulation for Optical Information Processing</b> → 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"><li>Aligned and optimized a hybrid optical-computational setup using spatial light modulators</li><li>Designed and tested deep learning diffusion models in PyTorch to guide optical processing</li></ul>
2024 – Lausanne, CH	<b>École Polytechnique Fédérale de Lausanne, EPFL</b> <b>Master's degree in Microengineering, minor in Computational Science and Engineering</b> → Optics, photonics, MEMS, AI, nanotechnology, microfabrication, HPC, quantum computing and simulations <ul style="list-style-type: none"><li>Development of an autonomous mobile robot: implementation of ML algorithms on embedded systems with computer vision</li><li><b>Laboratory of Hybrid Photonics (HYLAB):</b> Electrode Optimization for High-Q Resonators Using Field-Based Surface Analysis and CST Simulations</li></ul>
2022 – 2024 Saclay, FR	<b>CentraleSupélec – Université Paris-Saclay</b> <b>Double degree, engineering curriculum</b> 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"><li>Construction and development of an autonomous drone: following complex routes and retrieving objects</li><li>Prediction of a city's electricity consumption using data science and machine learning (EDF partnership)</li><li>Data analysis and development of prediction models for catenary lifting (SNCF partnership)</li></ul>
2019 – 2022 Lausanne, CH	<b>École Polytechnique Fédérale de Lausanne, EPFL</b> <b>Bachelor's degree in Mechanical Engineering</b> → Programming, dynamical systems, numerical analysis, material science, fluid mechanics Average: 5.41/6

PROFESSIONAL AND ASSOCIATIVE EXPERIENCE

2024 - Lausanne, CH	<b>Association EPFL Spacecraft Team</b> <b>Team leader – Ground Segment</b> 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"><li>Develop and assemble an X-band antenna, the first student-operated system of its kind.</li><li>Design and implement the antenna’s control software using Rust and Linux.</li><li>Contribute to a digital twin for satellite modeling, enabling faster design iterations and performance optimization.</li><li>Perform tradeoff analyses on critical satellite parameters, guiding key design decisions and improving mission reliability.</li></ul>
2022 – 2024 Saclay, FR	<b>Association Forum CentraleSupélec</b> <b>Event &amp; Quality Manager</b> Student association organizing a major business forum with 200+ companies and a turnover of €1.3 million. <ul style="list-style-type: none"><li>Manage relations with partner companies and coordinate event logistics for exhibitors and participants.</li><li>Ensure quality management of the event, including preparation of the annual audit and compliance with ISO standards.</li><li>Develop automation algorithms to streamline repetitive tasks, reducing workload and improving team efficiency</li></ul>
2021 – 2025 Lausanne, CH	<b>École Polytechnique Fédérale de Lausanne, EPFL</b> <b>Teaching Assistant</b>

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	Ski	Foil	Tennis
Interests	Astronomy	Science	Mythology	Travel		