



Imane Jennane

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Education

Stanford University	May 2026 – Now
Visiting Scholar in Stanford Robotics Lab	
Computer Vision and Robot navigation for thrombectomy in stroke cases	
EPFL – École Polytechnique Fédérale de Lausanne	Sept 2023 – April 2026
MSc in Robotics, specialization in Computer Vision	
Relevant coursework: Image Analysis & Pattern Recognition, Machine Learning, Signal Processing, Robotics	
Technical University of Denmark (DTU)	Aug 2022 – Jun 2023
Exchange Year in Microengineering	
EPFL – École Polytechnique Fédérale de Lausanne	Sept 2019 – Jul 2023
BSc in Microengineering	

Research & Technical Experience

Visiting Researcher - SRL, Stanford, USA	May 2026 – Now
• Developing a computer vision pipeline for 2D-to-3D localization and real-time tracking of a medical micro-robot in a transparent vascular phantom.	
Robotics Systems Engineer Intern - Fotokite, Zurich	Oct 2025 – April 2026
• Designed a real-time drone object tracking pipeline combining YOLO-based detection and OTrack , optimized for blur, occlusion, and onboard latency.	
Computer Vision Research Project - EPFL CV Lab & ESA	Feb 2025 – Jul 2025
• Implemented fault injection strategies to evaluate and analyze the robustness of 6D pose estimation models under sensor noise, occlusion, and degraded spacecraft imagery.	
Robotics Semester Project - LTS5 Lab, EPFL	Aug 2024 – Jan 2025
• Domain adaptation with a U-Net-based CNN to enhance ultrasound image quality and improve generalization across heterogeneous ultrasound domains.	
Microengineering Intern - GALATEA Lab, Neuchâtel	Jul 2023 – Sept 2023
• Worked on haptic interfaces and 3D sensing systems for laser-manufacturing probe stations	

Teaching & Mentoring

- Teaching Assistant, Algorithms & Computational Thinking (UNIL) - Java, Python
- Teaching Assistant, Physics (EPFL & UNIL)
- Teaching Assistant, Descriptive Geometry (EPFL)
- Student Mentor, EPFL

Technical Skills

Computer Vision & ML: object tracking, pose estimation, domain adaptation, image analysis
Programming: Python, C++, MATLAB, Java
Tools: OpenCV, PyTorch, CATIA, LTSpice
Languages: English (fluent) - French, Arabic (native)