

LOIC POISSON

Stanford Master of Science in Mechanical Engineering, IIE-Fulbright awardee

Looking for a 2026 Summer Internship in Process Optimization, Manufacturing, AI and Robotics

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🏠 Stanford, CA

EDUCATION

STANFORD UNIVERSITY

Sept 2025-Jun 2027

- **Master of Science in Mechanical Engineering:** Concentration in **Manufacturing, Robotics, and Data Science** | **GPA 3.9/4.**
- **Courses:** Deep Learning (CS 230) / Decision Making Under Uncertainty (AA 228) / Linear Algebra (ME 300A) / Theoretical Statistics (Stats 200) / Introduction to Robotics (ME 320) / Corporate Financial Management (MS&E 249) / Mechanical Engineering Teaching Assistant Training (ME 492) / Robotics and AI (Seminar)

ARTS ET MÉTIERS INSTITUTE OF TECHNOLOGY (ENSAM), Paris - France

Sept 2023-Jul 2025

- Combined BS x MS Engineering Degree | **GPA 3.98/4** | Ranked **top 10%** (102nd / 1,150 students).
- Mechanical / Electrical / Industrial Engineering.
- **Courses:** Design, Manufacturing, Fluid Dynamics, Thermodynamics, Material Science, Supply Chain, Lean Management, Six Sigma.

PROFESSIONAL AND LEADERSHIP EXPERIENCES

Data Science intern, Management of 8 train test sessions, SNCF Voyageurs, Paris - France

Jun 2025-Aug 2025

- **Test managing** new French High Speed Train pre-operation phases, draft and apply test procedures.
- **Coordinated** result tracking and developed reporting tools to validate system performance during use.
- Developed **automation** workflows using **Power Automate, Power BI:** process optimization and pre-processed data.

Engineering Intern, Prototype Manufacturing, Renault Technocentre, Paris - France

Jun 2024-Jul 2024

- **Analyzed and tested prototype components for vibration control, durability, and assembly precision.**
- **Reduced assembly defects by 4%** on Alpine A390 prototypes and **optimized** processes.
- **Reduced** human error and improved torque precision, **increased efficiency by 6% across 17 tasks.**
- Assembled the Alpine A390, R5, and 4L prototypes and **coached** 5 operators on 3 assembling processes each an hour long.
- **Reviewed / Engineered** custom production tools that streamlined the assembly process, resulting in a **1%** reduction in prototype assembly time by optimizing and improving workflow efficiency.

President, ENSAM 3D Printing and Laser Engraving Club, Paris & Bordeaux - France

Dec 2023-Aug 2025

- Led a **multidisciplinary team of 15 students**, coordinating **60 student projects.**
- Managed production of **500+ custom parts**, generating **\$5,000** in revenue.
- **Organized workshops** and competitions for my school class on 3D printing and laser engraving.

Volunteering, Boy Scout Troop Leader (Scoutmaster) for 4 years, Bordeaux - France

Sept 2019-Jul 2024

- Mentored **30 scouts**, focusing on **leadership, teamwork**, and self-reliance through hands-on activities.
- Organized annual three-week camps, managing logistics, safety, and budgeting for 30 participants.

ENGINEERING PROJECTS

Digital Twin Development for Process Optimization, Graduate Project

Jan 2025-Jun2025

- Designed a digital twin system for industrial processes, leveraging **machine learning** for data analysis and process optimization.
- Applied optimization algorithms to simulate real-time operational conditions and enhance decision-making.

Urban Greenhouse Automation Using a Ground-Air Heat Exchanger, Undergraduate Project

Aug 2022-Jul 2023

- Improved temperature and CO2 **stability by 30%** by developing autonomous **climate control in an urban greenhouse.**
- Developed a thermodynamic regulation system using a Canadian well, using Arduino to control airflow.
- Led prototype development with potential for **commercialization** in urban agricultural applications.

Vibration Damping in a Wood Longboard Skateboard, Undergraduate Project

Sept 2021-Jul 2022

- Achieved a **20% reduction in harmful vibrations** between 10–20 km/h, improving rider comfort and stability.
- Modeled the behavior of **non-homogeneous materials** using **MATLAB, Solid Mechanics, and FEA** to optimize the board's structure.
- Led user testing with 7 riders to refine the design and validate performance improvements.

SKILLS

- **Languages:** French (Native), English (fully operational: TOEFL IBT 100/120), Spanish (Intermediate)
- **Programming languages:** Python, Arduino, MATLAB, Abaqus

PASSIONS

- **Tutoring:** 3+ years teaching **Mathematics, Physics, and Mechanical Engineering** 2019-present
- **Sports:** **Stanford Rugby Team** (4 times a week), **Tennis (10 years with competitions)**, **Sailing (13 years)**, Skimboard (6 years), **Running** (Paris' Half-Marathon), Completed a **110 km trek in 27 hours**, **Hiking**
- **Social:** **President of the Stanford French Association** (100 people). *Organizing events, cultural talks and fostering our community.*
- **Linguistics & Travel:** English (17 years), Spanish (7 years), ancient Greek (3 years), Russian (1 year), traveled to **9 countries.**