

SIMONE LICCIARDI

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 Zürich, CH

EDUCATION

MSc in Computational Engineering (Robotics specialization), ETH Zürich 09/2025 – 07/2027

Coursework in Robotics-oriented Optimization, Physical Simulation, Control and RL.

- Deployed control software on quadcopters and practical experience in modelling of quadrupeds.
- Working Proficiency with c++, Cuda on embedded systems and clusters for AI, and Scientific Computing.
- Developing prototypes on the side. In progress, a self-balancing box touching ground on a vertex.

BSc in Mathematical Engineering, Politecnico di Milano 09/2022 – 07/2025

Coursework in physics- and data-driven Scientific Computing and Modeling for Engineering.

- **Ranked 1st** within 345-student cohort for 2+ years with **GPA 30/30** (*9 honours, 17 perfect marks*).
- Additional graduate coursework in Deep Learning and Neural Networks.
- *Relevant Coursework:* advanced numerics and solvers, convex optimization, statistics, control theory, device electronics, circuits. Extensive coursework in probabilistic and physical modelling.

BSc Exchange Programme, New York University 01/2025 – 05/2025

Coursework in Applied Mathematics.

- First-ever student from my course selected for this programme (on merit, **top 2%**).

Math & Physics Competitions (High School), Liceo Scientifico A. Volta 09/2017 – 07/2022

- National finalist in Physics and Mathematics competitions.
- Trained the school's math team, winner of 3 out of 5 of the latest national competitions.

PROJECTS

Robotics Competition Winner, ETH Zürich 11/2025

Ranked **1st** in Pr. d'Andrea's competition within 450-student graduate class. Report accessible [here](#).

- Implemented fastest optimal decision-making numerical algorithm (**2.5 times quicker** than runner-up).
- Exploited problem structure and accelerated Bellman solvers (50Hz performance). (*Scipy, Numpy*)

Semestral Research Project (2026), ETH Zürich 02/2026

Non-incremental work in 3D flow reconstruction from Particle Image Velocimetry data, aimed at downstream RL-based control of fluids. Based off [this work](#).

Undergraduate Research, Independent 09/2024 – 12/2024

Literature Review, aimed at producing Thesis proposal. Conducted independently, report accessible [here](#).

EXPERIENCE

Ambassador & Mentee, Lead The Future Mentorship 09/2023 – 09/2025

LTF is the largest Mentorship programme for STEM Excellence in Italy, and a project I believe in.

- Enhanced mentorship success rate and engagement by implementing onboarding procedures.
- *Impact:* highest no. of admitted referrals in 2024 (6% of total), while Ambassador at PoliMi.
- *Admission:* 13% rate.

Team Leader, AIM - Mathematical Engineers Association 11/2022 – 05/2024

AIM is a student association with over **3000 members**.

- Led up to **16 people** on core programs, achieving over 200 participants.
- Developed survey to study Alumni's Job Market. You can find the full release of our work [here](#).
- *Impact:* over 300 new memberships, achieving the highest annual growth to date.

SELECTED COURSES

M2L Summer School, Google DeepMind 2024-2025, 92h

DeepMind's ML Programme for top Southern Europe researchers. *Admission:* 14% rate.

National preparation for IPhO/IMO Italian Team, Scuola Normale Superiore di Pisa 2022, 80h