

EDOARDO MAESTRI



edoardo.maestri03@gmail.com • +39 391 489 3418 • Genoa, Italy



Edoardo Maestri LinkedIn.com

English (C1 Certificate 2025) • French (Basic) • Italian (Native)

Strong interest in Fluid Dynamics, Experimental Physics, Energy, Technical Physics.

EDUCATION

UNIVERSITY OF GENOA, ITALY - MASTER'S DEGREE IN AERONAUTICAL
ENGINEERING - SEPT. 2025 - CURRENT

POLYTECH D'ORLÉANS, FRANCE - VISITING STUDENT, MASTER'S DEGREE IN AEROSPACE
ENGINEERING - AUG. 2025 - JAN. 2026

Courses (24 ECTS) / Topics: **Turbulence** & Advanced CFD, Nuclear Energy, New Energetic Vectors, **Adjoint Method**

UNIVERSITY OF GENOA - BACHELOR'S DEGREE IN MECHANICAL
ENGINEERING - SEPT. 2022 - JULY 2025 (106/110)

Elective Courses: Models and Computational Methods for **Thermal System** and Modelling and Experimentation in Mechanical System Dynamics.

IANUA ADVANCED SCHOOL, UNIVERSITY OF GENOA - 2023 - 2025
SCIENCE AND TECHNOLOGIES FOR SUSTAINABILITY

Multidisciplinary parallel academic program aimed at the promotion of excellence in STEM fields. Admission to the IANUA program is **highly selective** and reserved for top students of the degree course.

See also: ianua.com

G.D. CASSINI HIGH SCHOOL, ITALY - SCIENTIFIC DIPLOMA - (GRADE 95/100)

MOST RELEVANT ACADEMIC EXPERIENCES

PRELIMINARY STUDY - SEPT. 2025 - CURRENT

"Freely falling disks with superhydrophobic surfaces"

Preliminary experimental tests on **stability theory** for free falling bodies with superhydrophobic treatments conducted in *Laboratoire PRISME* (France) based on superhydrophobicity studies by *Professor Nicolas Mazellier*.

CO-AUTHOR SCIENTIFIC PUBLICATION - 2025

"Taylor-Couette instability with differential slip at a boundary"

Experimental and numerical studies based on the **Asymptotic Homogenisation Theory** developed by *Professor A. Bottaro*.
(Currently the article is under peer review process)

THESIS PROJECT IN PASSIVE DRAG REDUCTION SYSTEMS - 2024 -2025

An 11-month-long thesis combining **experimental** and **theoretical** approaches focused on micro-geometrical bio-inspired surface structures (**Riblets**) that influence and delay the formation of Taylor vortices.

MOST RELEVANT EXPERIENCES

DOPE AEROSPACE - EUROCC EUROPEAN ROCKETRY CHALLENGE- *CURRENT*

Team Leader of the Rocket Team, hard-working with passion and determination to the development of my university's first-ever attempt to participate in the Portuguese Space Agency's & **ESA** University Rocketry Challenge.

Our last remarkable achievements:

- May 2025 First static fire APCP engine
- Dec. 2025 First flight test, low apogee target (600m)

See also: dopehubs.com & eurocc.com

SPACETECH ORLEANS - AUG. 2025- JAN. 2026

Member of aerospace student team of Polytech Orléans (FR). I contributed to the realization of the aerodynamic model of a supersonic sounding rocket.

DIGITAL SKILLS

Matlab | **Ansys Fluent**, **Chemkin** | FreeFEM++ | C++ | **CAD** | 3D Printing | VBA | **EES**

FUTURE PROJECTS

Participating in extracurricular course on CFD (**OpenFOAM**).
Independently studying advanced maths for CFD.

Hobbies and Sport

As an athlete, I have been practicing **rowing** at a competitive level for 14 years, an experience that has greatly enhanced my ability to work in a team and develop persistence and dedication in long-term projects.
In past years I have participated in numerous competitions, winning regional titles and achieving significant placements in national and international competitions.