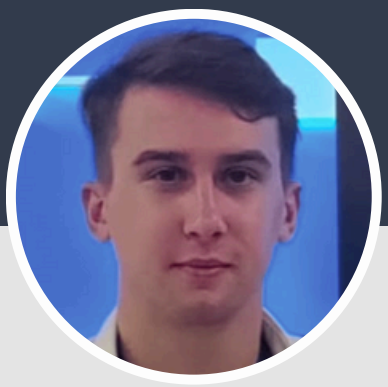
SEBASTIANO RAGGI

MECHANICAL ENGINEER



CONTACT

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SKILLS

- Project Management
- Teamwork
- Leadership
- CAD 3D - Onshape, Creo, Fusion 360
- CFD - Ansys Fluent, Simscale, XFLR5, Paraview
- Microsoft Office
- Canva
- Public speaking

LANGUAGES

- Italian (Native)
- English (Fluent - C1)

PUBLICATIONS

Submitted for publication*:
Aerospike: an hybrid parametric-adjoint approach for the optimal design
Roberto Carbone; Joel Enrique Guerrero Rivas; **Sebastiano Raggi** & Jan Oscar Pralits
Aerotecnica missili e spazio, 2025

PROFILE

I am an Aeronautical Engineering student with a strong passion for computational fluid dynamics (CFD) and simulation. I hold a Bachelor's Degree in Mechanical Engineering, with an experimental thesis focused on the optimization of an aerospike strut.
For over two years, I have been an executive member of the student association DOPE Aerospace, and for more than a year I have served as the team leader of UAS 2025 — a team developing a drone to compete in an international university competition in the UK.
I have accumulated over 400 hours of active 3D modeling using Onshape. Within the UAS project, I collaborated with Dream Innovation — a spin-off of C.I.R.A. — for aerodynamic design, and with JP Droni for mechanical design.

Work Experience - DOPE Aerospace

Team Leader UAS 2025 set 2024 - Present
Design & build a drone for an international student competition

- Manage 15 engineers
- Coordinate an extensive aerodynics design of the fixed wing drone with XFLR5 and Simscale
- DIrect mechanical design of the fuselage
- Cooperation with DREAM Innovation and JP Droni

Team Leader Structure & Mechanics ago 2023 - set 2024
Coordinate “Paganini” H.A.L.E project

- Manage 10 mechanical engineers working on a H.A.L.E. drone
- Design and build small drones with XFLR5 and Onshape

MEMBER mar 2023 - ago 2023
Mechanical designer

- Design rocket for student competition with Onshape
- Introduction to basic rocket stability with OpenRocket

EDUCATION

Master of Aeronautical Engineering 2024 - present
Università degli studi di Genova

Bachelor of Mechanical Engineering 2020-2024
Università degli studi di Genova
GPA: 3.5 / 4.0 (102/110)