



Honor Society
member

COSIMO CASOTTO

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My website: <https://www.cosimolikesrockets.com/>

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA | Master's Degree in Aerospace Engineering Jan 2024 – Present

- GPA: 4.0
- Classes: Combustion, Computational Fluid Dynamics, Aerospace Propulsion Lab, Kinetics and Thermodynamics of Gases

UNIVERSITY OF PADOVA, Padova, Italy | Bachelor's Degree in Aerospace Engineering Sep 2020 – Sep 2023

- Graduation Grade: 110 / 110
- Final Thesis: "Chemical Aspects of Hybrid Rocket Propulsion", Passed with 30 cum Laude. [Honor Society](#)

PROFESSIONAL EXPERIENCE

INTERN at **Rocket Factory Augsburg**, German Startup in Augsburg, Germany May 2024 – Aug 2024

- Propulsion **Production Engineering**
- Created a new revision of the engine assembly manual
- Reviewed traveler steps of 3D printed engine components
- Developed engine checkout procedures for leak checks, P&ID checks, and engine sensors
- Performed engine checkouts for RFA's first launch
- Investigated alternatives for U-joints for future engine gimbaling systems
- Performed hydrostatic and pressure-drop testing of engine components

TEST ENGINEER at **Technology for Propulsion and Innovation**, Italian Startup in Monselice, Italy Jul 2023 – Dec 2023

- Designed graphite nozzle to be tested on catalytic section of 7kN hybrid engine
- Researched materials and sized screws for hybrid engine
- Designed a spring-loaded mold to cast fiberglass composite blocks for in-house thermal protection manufacturing
- Analyzed multi-channel data acquisition boxes for tests conducted outside the company's facilities
- Conducted tests on 1 kN and 7 kN hybrid engines to investigate the performance of different materials (nozzles and thermal protection)

ROCKETRY CLUB EXPERIENCE

MEMBER of **YELLOW JACKETS SPACE PROGRAM** at Georgia Institute of Technology, Atlanta, GA Jan 2024 – May 2024

- Program: Sounding Rocket with Liquid Propulsion System
- Team: Propulsion
- Testing and Optimization of Liquid Oxygen / Jet-A engine with ablative cooling

CO-FOUNDER of **THRUST STUDENT PROJECT** at University of Padova, Italy Oct 2021 – Dec 2023

- Program: Design and manufacturing of SFRI: Sounding rocket with hybrid propulsion system
- **Led the testing team**
- Tasks: Design of test stand and gas cylinder rotator, Piping and Instrumentation Diagrams, Test Procedures, Test Execution
- Awards: Most innovative project at Italian Space Day 2022

RESEARCH

HIGH-PERFORMANCE COMPUTING LAB, at Georgia Institute of Technology, Atlanta, GA Nov 2024 – Present

- **Large Eddy Simulations** of CO_2 mixing layers under ideal gas conditions
 - Working with CFD solver (RAPTOR)

SKILLS

SOFTWARE

- CAD (SolidWorks, Fusion 360, Autodesk Inventor, Siemens NX)
- Piping and Instrumentation (PLANT 3D, Microsoft Visio)
- Coding (MATLAB, C++, python)
- 3D printing
- CFD (PARAVIEW, Linux terminal, SLURM)

DATA ACQUISITION

- National Instruments Compact RIO

PUBLIC SPEAKING

- Invited speaker at Liceo Scientifico Ippolito Nievo in Padova, Italy in 2022 (Topic: Success After High School)
- Speaker for the THRUST student Project at SpaceMeetings Veneto 2023 in Venice, Italy (Topic: Thrust Student Project Pitch)

LANGUAGES

- English and Italian: Bilingual
- Spanish: Professional