Juan Ignacio Ogdon

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Profile

Aerospace Engineering student (5th year, expected graduation Dec 2026) at Universidad Tecnológica Nacional. Enthusiastic and fast learner with proven adaptability in diverse technical environments. Experienced in spacecraft mechanisms, rocket simulation, and aerospace research projects. Strong communicator with international exposure, aiming to contribute to the development of advanced space systems.

Education

Universidad Tecnológica Nacional (UTN) — Expected Dec 2026
B.Sc. Aerospace Engineering (6-year degree) — Grading Avarage: 8.0/10 — *Buenos Aires, Argentina*

Don Bosco High School — Dec 2020
Diploma in Economics and Administration — Grading Avarage: 9.24/10 — *San Carlos de Bariloche, Argentina*

Experience

LIA Aerospace — 2024 – 2025
Intern — *Buenos Aires, Argentina*
Worked on applied aerospace engineering tasks with focus on systems analysis and design.

Grupo de Tecnología Aeroespacial, UTN — 2022 – 2024
Research Student — *Buenos Aires, Argentina*
Developed a CubeSat appendage release system for solar panels, culminating in international recognition.

Presented research at the International Academy of Astronautics Latin American Small Satellite Conference, awarded **Best Presentation in Satellite Technology (2024)**.

Private Tutor — 2019 – Present
Mathematics and Physics — *San Carlos de Bariloche / Remote*
Helped high school and university students improve performance in math and physics, strengthening my communication and teaching skills.

Interests

- Rocket propulsion and control systems
- Autonomous systems and drones
- Aerospace applications of AI
- FEA and Structural analysis
- Space systems engineering
- Computational Fluid Dynamics (CFD)

Selected Projects

CubeSat Appendage Release System — Design, simulation, and characterization of a solar panel deployment mechanism; awarded Best Presentation at IAA 2024.

Rocket Attitude Control Simulation — Simulated thrust vector control Rocket Dynamics using Simulink.

Awards

Best Presentation Award in Satellite Technology, IAA Latin American Small Satellite Conference (2024).

Skills

Programming & Simulation: MATLAB, Simulink, Mathematica, Python, OpenFOAM

Engineering Tools: CAD Design, FDM 3D Printing, Optimized Design for 3D Printing, FEA

Collaboration: Atlassian Jira, Confluence; team-based research projects

Soft Skills: Quick learner, adaptable, strong communicator, collaborative, active problem solver, eager learner and passionate teacher

Languages

Spanish: Native

English: Bilingual, C1 certified