

ANDREA JIMMY PACURSA

PhD Student in Aerospace Engineering

📍 Via Aspromonte 19,
Nova Milanese (MB)

✉️ ajpacursa@gmail.com

☎️ +39 3313481845

🌐 <https://pacursaportfolio.carrd.co/>

PROFILE INFO

Aspiring Space Mission Analyst with a strong academic background in Space Engineering (MSc, cum laude). Experienced in trajectory analysis, mission design, and spacecraft systems, with a particular interest in cislunar and interplanetary missions. Highly analytical, with a problem-solving mindset and a solid ability to translate complex mission requirements into effective technical solutions. I love working on space-related team projects, thanks to which I can expand my knowledge, feed my passion and gain practical experience. To enclose my attitude: "Ad maiora semper".

ACADEMIC ACHIEVEMENTS

- **MSc Thesis Work** 2025
 - "Nonlinear Sample-based Guidance leveraging GPU-based Propagation"
 - Developed at DART Team - Polimi under technical supervision of ESA-ESOC Mission Analysis Section (OPS-GFA)
- **Conference Papers - IAC 2025 Sydney** 2025
 - Main Author and Speaker - IAF Astrodynamics Symposium: "High-resolution imaging in VLEO: Preliminary Mission Analysis and GNC Design for the HORUS mission"
 - Co-Author - IAA Symposium on Small Satellite Missions: HORUS: a High-resolution Earth Observation Mission in Very Low Earth Orbit
- **DSU Scholarships for Merit** 2020 - 2025
 - Awarded by Politecnico di Milano for academic merit
 - Beneficiary for five consecutive years
- **Recent High School Graduate Scholarship for Merit** 2021
 - Awarded by Comune di Nova Milanese for high-school merits

EXPERIENCE

- **DART Lab - PoliMi** 2026 - PRESENT
PhD Researcher
- **Fuoco & Vino - Brasa con Cucina** 2023 - 2024
Waiter
- **Ristorante Pizzeria L'Impronta** 2021 - 2023
Headwaiter and Rider

DIGITAL SKILLS

Standard ECDL Certification | Full Standard ECDL Certification 2019 | Social Networks | Microsoft Office Package | Windows Operative Systems | Python | Matlab & Simulink | Aerospace Toolbox | Femap/Nastran | Inventor | SolidWorks | Solid Edge | SPICE Simulator | Dymola | Modelica | NASA-CEA | RPA Standard Edition | LaTeX

EDUCATION

POLITECNICO DI MILANO

- Feb 2026 - Present
- PhD in Aerospace Engineering

POLITECNICO DI MILANO

- Sept 2023 - Dec 2025
- MSc in Space Engineering
- Grade: 110/110 with honors

POLITECNICO DI MILANO

- Sept 2020 - Jul 2023
- BSc in Aerospace Engineering
- Grade: 100/110

LICEO SCIENTIFICO "ETTORE MAJORANA", DESIO

- Sept 2015 - Jun 2020
- Diploma
- Grade: 100/100

SKILLS

- Project Management
- Problem Solving
- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking
- Work under Pressure

LANGUAGES

- Italian (native)
- English (fluent)
- French (basic)