



Jorge Santiago Alva Lazo

Personal Details

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Languages

English — C2, fluent

German — B1

Spanish — Native Speaker

Catalan — Native Speaker

Profile

Enthusiastic recent graduate of the Technical University of Madrid with a degree in Aerospace Engineering.

Eager to contribute to team success through hard work, communication, attention to detail, and good organizational skills. Motivated to learn, grow and excel in the industry.

Education

2022 - 2023

Erasmus+ Exchange year – Technische Universität Berlin.

Space Propulsion, Space Mission Analysis, Machine Elements, Deutsch B2.1.
BSc. Thesis: Perturbation Analysis of Venus-Centered Orbits

2017 - 2022

Aerospace Engineering Bsc. – Technical University of Madrid
Specialization in Aerospace Propulsion.

Fields of study: Thermodynamics, Heat Transfer, Structures, Vibrations, FEM, Fluid Mechanics, Numerical Methods, Aerospace Materials, Turbomachinery.

2015 – 2017

Bachillerato - Antoni De Martí I Franquès School, Tarragona

Honorary Mention, grade above 90% in the Technological intensification.

Experience

July – September 2022 (3 Months)

Internship: Student Researcher – Asteroid Mining Corporation

Teamworked with international students on research assessing opportunities and limitations of probing asteroids, in search for metals.

- Collaborated in a python script which gathered information for a list of asteroids and calculated relevant data for the transfer orbit design.
- Compared different spacecraft architectures, studied a list of components to meet mission objectives, and drafted 3D models of them.

Skills

- **MATLAB, Python:** High proficiency, multiple projects in engineering fields.
- **3D CAD design:** Catia v5, Siemens Solid Edge, Autodesk, Fusion360.
- **FEM simulation:** Experience with Adina Structures.

Interests

- Great interest in scientific and technological advances, as well as in their impact in society and the environment.
- Always on the lookout for activities related to space and engineering. Participated in prototyping competitions.

Volunteering

- Co-organised SGAC's SG[Spain] 2022 - an event in Madrid that gathered speakers from the most influential New Space companies in Spain, with over 100 participants.
- Student Mentor during the year 2020, provided assistance to new students.
- Student Volunteer in EUCASS 2019, a European aerospace conference.