

MARCO CORRALES-BARRANTES

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PROFILE SUMMARY

Marco is a passionate space enthusiast with interests ranging from space science research to systems engineering. He also works very hard to close the regional access-to-information gap regarding space opportunities through his work at SEDS Costa Rica, which he co-founded and leads. Also, he is TECSpace's president, where he is fostering the access to space engineering hands-on experiences. In addition, he has participated in several international space competitions and projects. Finally, he loves being surrounded by nature, instrumental music, and stories. INTJ/INFJ.

PROFESSIONAL SKILL

Creativity
Leadership
Time management
Adaptability
Initiative
Problem-solving mindset

TECHNICAL SKILL

FreeFlyer
Python
Research skills
GMAT
MATLAB
Project management

EDUCATION

B.Sc. in Engineering Physics 2021 – ongoing
Costa Rica Institute of Technology, Cartago
GPA: 3.7

High school Diploma 2019 – 2020
Costa Rica Science High School, Puntarenas.
GPA: 3.8

MAIN WORK EXPERIENCE

Co-founder and Project Manager February, 2022 – Ongoing
SEDS Costa Rica

- Student organization on its way to becoming the largest group of its kind in the country.
- I myself first devised and then promoted its creation after realizing the existing education gap.

President July, 2021 – Ongoing
TECSpace

- University space student group focused on providing students with hands-on projects.
- Before being elected president, I was the Education Department head and student researcher.

Basic Chemistry II – Course Tutor July, 2021 – October, 2021
Costa Rica Institute of Technology

- I taught extra classes to university students weekly to help them improve their performance.

Research Assistant January, 2023 – Ongoing
Costa Rica Institute of Technology, SETECLab

- I contribute to the design of the ADCS for the GW-Sat mission.

Advanced Calculus – Course Assistant

July, 2022 – November, 2022

Costa Rica Institute of Technology

- My work as a assistant relates to evaluating quizzes and homeworks weekly.

Writer, Space Ambassador for Costa Rica

November, 2021 – January, 2023

Space Is For You

- I wrote articles about space technology applications, focusing on the Central American region.

Research Assistant

February, 2023 – Ongoing

Costa Rica Institute of Technology, LIANA

- I contribute to a project involving AI and ML applications to predict stellar parameters.

Research Staff Member

February, 2023 – Ongoing

Space Generation Advisory Council, Small Satellites Project Gorup

- I am a co-author for the IAC paper titled "Lessons Learned from the First Generation of Interplanetary SmallSats."

OTHER MINOR STUDENT GROUPS

Member

July, 2021 – December, 2021

AstroTEC

- Astronomical data processing group member and participation in outreach activities.

Member

July, 2021 – December, 2021

TEC ACS Student Chapter

- Took part in outreach activities, including leading the "Cafés Virtuales".

VOLUNTEERING EXPERIENCE

Volunteer

May, 2022 – Ongoing

VolunTEC

- Volunteering work related to the environment and social causes. Took part in the first Volunteering National Congress 2022 and in the Venado Island Social Work Campaign.

Mentor

September, 2022 – Ongoing

IntegraTEC

- Guidance and mentoring tasks to my bachelor program's freshmen.

Ambassador for Costa Rica

May, 2022 – March, 2023

The International Student Festival in Trondheim (ISFiT)

- Outreach among Costa Rican youth. Guidance to make a proper application. As a result, I achieved to send the largest amount of Central Americans participating in a ISFiT edition ever.

ACHIEVEMENTS

- Leader of a team selected for The Great Lunar Expedition for Everyone.
- Mission Idea Contest 7th edition Student Prize awardee.
- Constantly awarded Honor Scholarship at the university for outstanding grades.
- "Reto I a la TEC 2021," second place.
- NASA International Space Apps Challenge 2021 Global Nominee.
- Universidad Latina's Top 100 Academic Challenge, first place, 100% scholarship awardee.
- National Biology Olympiad 2019, Silver Medal.