Osmin Larreynaga

San Salvador, El Salvador

HARD SKILLS

Languages: SQL, Python, C/C++, JavaScript (Node.js).

Developer Tools: Linux, Git/GitHub, VS Code, Docker, Looker & Tableau, Google Cloud Platform (BigQuery, Dataflow,

Dataform, Cloud Storage, Cloud Functions).

Libraries/Frameworks: Pandas, NumPy, Scipy, TensorFlow, Matplotlib, Plotly, Apache Beam.

Data Skills: Data Integration, Data Cleaning, Data Visualization, ETL Pipelines, Workflow Automation.

EXPERIENCE

N1CO Technology Nov 2023 – Present

Data Engineer

Santa Elena, Antiguo Cuscatlán

- Develop and optimize data pipelines using BigQuery, Dataflow, and Dataform for efficient ETL workflows.
- Design and maintain Google Cloud-based data infrastructure, ensuring reliability and scalability.
- Developed interactive dashboards and reports using data visualization tools, and executed ETL processes to support analytical needs.
- Collaborated with stakeholders to convert business requirements into data insights, enhancing decision-making.

Don Bosco University

Jul 2024 – Present

Aerospace Researcher & Project Manager

Soyapango, San Salvador

- Collaborate with students and professionals on mission design, hardware selection, and testing procedures.
- Lead electronics and Command & Data Handling subsystem for High Altitude Balloon CubeSat U1.
- Organize and participate in aerospace workshops, talks, and research publications.

PROJECTS

CubeSat U1 | El Salvador's First Nanosatellite

Jun 2024 – Present

Manager, Research and Development

- Support mission planning, testing, and integration processes.
- Collaborate with Don Bosco University and external aerospace partners.
- Lead electronics and Command & Data Handling subsystem development for CubeSat U1.

High Altitude Balloon | StratoBalloon Mission

Jan 2023 – Dic 2024

Student, Research and Development

- Contributed to a research project with Don Bosco University and Micro Macro Observatory
- Work on trajectory simulation and tracking systems for near-space missions.
- Assisedt in selecting software and hardware for aerospace experiments.

EDUCATION

Mechatronics Engineering	2019 - 2024
Bachelor's degree, Don Bosco University	$Soyapango,\ San\ Salvador$
Electronic Engineering Technician	2016 - 2018
Associate's degree, Don Bosco University and Ricaldone Technical Institute	$San\ Salvador$
High School Diploma	2014 - 2016
Industrial High School Diploma, Electronic Option, Ricaldone Technical Institute	$San\ Salvador$
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High School Diploma	2014 - 2016
Industrial High School Diploma, Electronic Option, Ricaldone Technical Institute	$San\ Salvador$
ADDITIONAL FORMATION	
Platzi	2021 - 2024
Courses in machine learning and data science	Online
DataCamp	2023 - 2024
Courses focused on data manipulation techniques	Online
English Courses	2013 - 2016
Salvadorian American Cultural Center	$San\ Salvador$

CONFERENCES AND PUBLICATIONS

Selección de Antenas UHF para una Misión Near-Space en un HAB

IEEE Central America and Panama Student Conference (CONESCAPAN)

San Salvador, El Salvador

• A. Reyes, O. Larreynaga, M. Pleites, A. Martínez, G. Vásquez, J. Aldana

Simulation of HABs Trajectory in the Stratosphere for Near-Space Missions

Sep 2023

Sep 2022

1st Central American Space Congress, CEC 2023

San José, Costa Rica

• O. Larreynaga

AWARDS / RECOGNITIONS

Sideralis Scholarships Congress

Sep 2023

1st Central American Space Congress (CEC2023)

San José, Costa Rica

• Recognized as an aspiring space leader from Central America

VOLUNTEERING

IEEE Member & AESS Student Chapter Treasurer

Apr 2022 - Present

Young Profesional Member & Volunteer

• Organized webinars, workshops, and aerospace events.

• Led member expansion and outreach strategies.

 $San\ Salvador$

SGAC | National Point of Contact (NPoC) for El Salvador

Jan 2024 – Present

Space Generation Advisory Council (SGAC) Member

• Represent El Salvador in global space discussions.

• Connect students and professionals to international space opportunities.

Glasswing | Robotics Club Leader

2017

Mentoring & Teacher

 $San\ Salvador$

International

• Instructed children on Lego robotics to support constructivist learning.

REFERENCES

Napoleón Cornejo

Netherlands

Advisor of my degree thesis, Director and Founder of www.geokapti.nl

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El Salvador

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