

ALESSANDRO MELO DE OLIVEIRA

Undergraduate Aeronautical Engineer

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EDUCATION

- **B.S. in Aeronautical Engineering**

EESC - USP

Fev. 2018 - PRESENT

EXPERIENCE

- **Undergraduate Researcher**

FAPESP - São Carlos, SP

A research project that aimed to analyze the performance of atmospheric turbulence simulations. Work developed in Python, mainly with data analysis and visualization.

Jan. 2020 - Mar. 2021

- **CAD Engineer**

EESC-USP Aerodesign - São Carlos, SP

Design of a model airplane for competitions. Responsible for CAD and technical drawings, mostly using SolidWorks. Strong teamwork.

Mar. 2018 - Dec. 2019

- **Director of contents and financial manager**

EESC-USP SEA - São Carlos, SP

University project focused on promoting aeronautical events, such as debates and professional activities. Responsible for handling the event schedule and financial administration.

Jan. 2018 - Mar. 2020

AWARDS & RECOGNITION

- **28º SIICUSP**

Participation at 28º USP International Symposium of Undergraduate Research.

2020

- **OBEMEP**

Bronze Medal at OBMEP (Brazilian Mathematics Olympiad of Public Schools).

2014

SKILLS

- **Technologies**

Python, MATLAB, Excel, SQL (Postgres/MySQL), MongoDB, Python Data Science Framework (Numpy, Pandas, Matplotlib, Scikit-Learn, etc...), LaTeX, Git, Power BI.

- **General knowledge**

Aeronautical Engineering Coursework (Aerodynamics, Control, Materials, etc.), Object Oriented Programming, Data handling/analysis (Numpy, Scipy, Pandas), Basics of Machine Learning, Linux.

- **Project Management**

Notion, GitHub, Microsoft Suite

PROJECTS

- **Study on exchanges between Earth's Surface and atmosphere using Large-Eddy Simulation [Scientific Initiation]**

A detailed analysis of the physical parameters of an atmospheric turbulence simulation. Open source code in GitHub.

OTHER HIGHLIGHTS

- Languages: English (professional), French (beginner) and Portuguese (native)

- A parallel interest in the field of data science. Currently studying machine learning using Python libraries, such as *scikit-learn* and *statsmodels*. Participates in *Kaggle* competitions.

SOFT SKILLS



Teamwork
Solving



Problem
Learning



Lust for
Learning



Storyteller



Organization

Check it out my online CV for more detailed info.

<https://alessandromdo.github.io/curriculum/>