

ALESSANDRO MELO DE OLIVEIRA

Undergraduate Aeronautical Engineer

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EDUCATION

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

EESC - USP

Fev. 2018 - PRESENT

EXPERIENCE

- **Software Engineering Intern**

Zaig Tecnologia da Informação Ltda - São Paulo, SP

A short internship where I worked with API's development using Python and other DevOps tools, like Docker, Postman, etc.

Apr. 2021 - July 2021

- **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.

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.

Jan. 2018 - Mar. 2020

AWARDS & RECOGNITION

- **28º SIICUSP**

Participation at 28º USP International Symposium of Undergraduate Research.

2020

SKILLS

- **Technologies**

Python, MATLAB, Excel, SQL, 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, Slack, GitHub, Microsoft Office 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 on 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



Problem Solving



Lust for Learning



Storyteller



Organization