

# ALESSANDRO MELO DE OLIVEIRA

Undergraduate Aeronautical Engineer

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## EDUCATION

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

University of São Paulo (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. Project developed in Python, mainly with data analysis and visualization.

*Jan. 2020 - Mar. 2021*

- **CAD Designer**

EESC-USP Aerodesign - São Carlos, SP

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

*Mar. 2018 - Dec. 2019*

- **Organizing Committee**

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

- **28° SIICUSP**

Participation at 28° USP International Symposium of Undergraduate Research.

*2020*

## SKILLS

- **Technologies**

Python, Java, MATLAB, SolidWorks, CATIA, MCS Patran, Ansys Fluent, Excel, SQL, Python Data Science Framework, LaTeX, Git, Power BI.

- **General knowledge**

Aeronautical Engineering Coursework (Aerodynamics, Control Theory, Finite Element Analysis, etc.), Object Oriented Programming, Data handling/analysis, Unit testing, Basics of Machine Learning, Linux.

- **Project Management**

Notion, Slack, GitHub, Microsoft Office Suite.

Scrum, Kanban.

## PROJECTS

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

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

## OTHER HIGHLIGHTS

- Languages: English, French and Portuguese (native)
- An enthusiastic in the field of data science. Currently studying machine learning using Python libraries, such as *scikit-learn* and *statsmodels*.

## SOFT SKILLS



Teamwork



Problem Solving



Lust for Learning



Storyteller



Organization