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

- **28º SIICUSP**
  Participation at 28º 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, 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)

- A parallel interest 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 |