

Guilherme Levi Bernini Bueno

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EDUCATION

University of São Paulo - São Carlos School of Engineering

Fev 2018 – Dez 2022

Aeronautical Engineering

São Carlos, SP

- Grade 8.0/10.

EXPERIENCE

EESC-USP Aerodesign

Fev 2019 – Present

Academical Engineering Team

São Carlos, SP

- Design and manufacture of radio-controlled aircraft to compete at SAE-Aerodesign competition;
- Optimization, manufacture, and operation of radio-controlled aircraft, elaboration of engineering reports, and ground/flight tests;
- Management and training of new members.

Fapesp - Undergraduate Research

Dez 2020 – Present

Research Project

São Carlos, SP

- Time-domain analysis of the load distribution in wings using the lifting-line theory and the Wagner's Function;
- Literature review about unsteady aerodynamic models use to perform aeroelastic analysis;
- Formulation and implementation of an object oriented routine using Python;
- Oral presentation on the 26th International Congress of Mechanical Engineering COBEM 2021 and the USP International Symposium of Undergraduate Research.

Aeronautical Engineering Week - SEA

Jan 2021 – Nov 2021

Organizing Committee

São Carlos, SP

- Organization of an academic event;
- Aviation content promotion;

PROJECTS

Data Challenge - VLabs

Out 2021

- Kaggle's private competition;
- Exploratory data analysis of a company sales dataset and development of a machine learning model to forecast revenue. Methods used: KNN, Gradient Boosting, Decision Trees;
- Award: 1st place.

Data Hackathon - XP Inc

Set 2021

- Pipeline implementation to perform ETL process using Azure Data Factory and Azure DataBricks;
- Award: 1st place.

EESC-USP Charlie 2020

Jan 2020 – Dez 2020

- 1st place in Advanced category of SAE-Aerodesign 2019 competition;
- Responsible for the performance report (highest score in the category).

EESC-USP Bravo 2019

Fev 2019 – Nov 2019

- 7th place in Micro category of SAE-Aerodesign 2019 competition;
- Best placement obtained by a team of rookies.

CERTIFICATIONS

Cloud Computing Foundations - Duke University/Coursera

Dez 2021

Neural Networks and Deep Learning - DeepLearning.AI/Coursera

Nov 2021

Machine Learning - Stanford University/Coursera

Out 2021

Introduction to Structured Query Language (SQL) - University of Michigan/Coursera

Ago 2021

LANGUAGES AND SKILLS

Languages: Portuguese (Native), English (Full professional proficiency) and German (Limited working proficiency)

Programming Skills: Python, Machine Learning, SQL and MATLAB.

Softwares: Office Package.