

GABRIEL DE TOLEDO PAULA

Phone: +55 12 99654-9043 — Email: gabrieldetoledopaula280703@gmail.com — LinkedIn — Lattes

PROFESSIONAL OBJECTIVE

Internship, aiming to apply and expand my knowledge in a collaborative environment that fosters the development of technical and personal skills, contributing to the company's growth.

EDUCATIONAL BACKGROUND

Physical Engineering

University of São Paulo (USP)

Start: 2021 – Expected completion: late 2025

GPA: 8.3

SUMMARY

Physical Engineering student at USP with solid experience in scientific research and teaching, specializing in solid mechanics and nonlinear dynamics projects, with a focus on numerical analysis and computational simulations. Experienced in analyzing and studying complex systems, with practical skills in electronics and lasers. Advanced programming knowledge, using Python, FORTRAN, and MATLAB to develop computational models. Fluent in English, with interpersonal skills that include teamwork, problem-solving, and teaching.

PROFESSIONAL EXPERIENCE

1. University of São Paulo (USP)

Position: Intern and Researcher

Period: Mar 2023 - Present

- Responsible for the maintenance of the Electricity and Experimental Physics III laboratories.
- Lab assistant, supporting the execution of experiments and clarifying students' questions.
- Conducted research in electronics and physical optics, resulting in the publication of a paper.

2. Aeronautics Institute of Technology (ITA)

Position: Scientific Initiation

Period: Apr 2023 - Present

- Developed computational models in Python, FORTRAN, and MATLAB for analyzing complex systems applicable in astrophysics, geophysics, and engineering.
- Research project approved to receive PIBIC ITA 2024/2025 scholarship.

3. University of São Paulo (USP)

Position: Scientific Initiation

Period: Jan 2022 - Jan 2023

- Conducted research on computational analysis of ductile damage in sheets under elastoplastic regime.
- Used numerical simulation to study the mechanical behavior of materials.
- Project presented at the 31st International Symposium on Scientific Initiation of USP (SIICUSP).

4. University of São Paulo (USP)

Position: Physics II Teaching Assistant

Period: Aug 2022 - Dec 2022

- Teaching assistant for the Physics II course, focusing on Hydrostatics, Hydrodynamics, Waves, and Thermodynamics.

SKILLS

English: Advanced (Comprehension, speaking, reading, and writing).

Programming: Python, FORTRAN, MATLAB.

Engineering Tools: SolidWorks.

Productivity: Office Suite (Word, Excel, PowerPoint), LaTeX.

RELEVANT COURSES

Data Science Mini-course (Pod Academy)

Embedded Systems (EEL-USP)

Electronic Prototyping with Arduino (EEL-USP)