

Higor Galina Pozza

📍 Campinas, Brazil

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👤 higor-gpozza

Education

UNICAMP

BSc in Mechanical Engineering

- GPA: 3.60/4.00

March 2019 - July 2022

March 2025 - Dec. 2026

- **Coursework:** Instrumentation, Materials Properties, Calculus & Physics, Thermodynamics & Heat Transfer, Mechanical Design & Manufacturing Processes, Fluid Mechanics, Dynamic Systems Control.
- Academic tutor for undergraduate courses in statics and mechanical forming for eight months.

ENSTA Paris

Aug. 2022 – Oct. 2024

M2 (MSc) in Mechanical Engineering, with focus on Sustainable and intelligent mobility

Auditing student in the Solid Mechanics course at the Polytechnic Institute of Paris.

- GPA: 3.58/4.00

- **Coursework:** Continuum Mechanics & Solid Mechanics, Computational Methods in Engineering, Structural Mechanics & Finite Element Analysis, Compressible flows, Turbulence & Fluid-structure interactions.
- Honored with the BRAFITEC academic excellence scholarship by CAPES for two years.

Experience

Research Scholar

Purdue University

West Lafayette, IN, USA

January 2026 - May 2026

- lorem ipsum
- lorem ipsum
- lorem ipsum

Engineering Intern

Technip Energies

Paris, France

April 2024 - Sept. 2024

- Integrated the Advanced Mechanical Systems department to support the development of a novel bottom connector design.
- Led mechanical simulations using finite element analysis (FEA) and contributed to validating offshore installation steps.
- Estimated a potential 25% reduction in material and installation costs thanks to the new solution.

Research Intern

IMSIA Lab, ENSTA Paris

Paris, France

May 2023 – Aug. 2023

- Improved the experimental methodology to measure the stress intensity factor in two steel alloys using DCPD method.
- Participated in all phases, from specimen preparation to data collection and analysis.
- Suggested a filter that improved the data processing time, allowing the tests to be carried out more quickly.

Publications

Noise control in ducts using local resonator acoustic metamaterial arrays.

Nov. 2021

Higor G Pozza, José M. C. Dos Santos

XLII CILAMCE, 2021, Congress proceedings ↗

Skills and languages

Languages: Portuguese, native / English, C1+, LinguaSkill, March 2024 / French, C2, TCF, June 2024.

Skills: MATLAB, Python, Ansys Mechanical, AutoDesl Inventor, Fiji.

Projects

Volunteer physics teacher and simulated exams coordinator

Jan. 2025 - Today

Cursinho Popular de Vinhedo

Mar. 2019 - Dec. 2020

- Volunteer physics teacher for low-income high school students preparing for university entrance exams, focusing on topics such as kinematics, electricity, and thermodynamics.
- Responsible for the simulated exams committee, from planning and logistics to application and feedback to teachers.