



GUSTAVO MELO SCHEIDT PAULINO

CONTACT

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EXPERTISE

- Programming Languages: C/C++; Python; VHDL; Ladder
- Autocad, HFSS, FPGA
- MATLAB, Simulink
- WordPress

EDUCATION

Telecommunication Engineering

Universidade Estadual de Campinas (UNICAMP)

2021- Present

Double Degree

Institut Polytechnique de Paris

2024 - Present

LANGUAGES

- English C1 **TOEFL IBT**
- Français B2 **IP Paris evaluation**
- Portuguese **Native Language**
- Spanish A2 **Highschool Education**
- German A1 **University Education**

Gustavo Scheidt

Gustavo Melo Scheidt Paulino

May 01, 2025

PROFILE

I am a technology enthusiast driven by the desire of improving my academic knowledge and becoming a better professional, with not only technical skills but also soft skills, leading the path to a thriving working enviroment.

EXPERIENCE

Researcher

Scientific Initiation Project - UNICAMP 2023 - 2024

- Developed a wearable prototype for potential detection cardiovascular diseases, integrating biomedical sensors, Arduino, and Machine Learning (Random Forest) to identify anomalies in heart rate and oxygen saturation.

Projet Cassiopée

Telecom SudParis - IP Paris 2024 - present

- Currently researching and implementing Mamba-based U-Net architectures for semantic segmentation of brain tumors in MRI scans. Evaluating and optimizing Vision Mamba and SegMamba models, exploring architectural improvements, optimization techniques, and benchmarking against state-of-the-art models.

3D Reconstruction using Gaussian Splatting

Telecom SudParis - IP Paris 2024 - 2025

- Studied and implemented Gaussian Splatting for 3D reconstruction as part of the course Computer Vision and Deep Learning - Part 2. Deployed the project, tested it on custom datasets, and initiated the development of 4D reconstruction.

Harvard Health Systems Innovation Lab Hackathon

Hub InovaHC 2024 - 2024

- Participated in a global healthcare innovation hackathon, where my team and I developed a non-invasive project to detect diabetes, winning the Brazilian stage. Collaborated with an interdisciplinary team to prototype and pitch the project to industry experts.

Courses

Coursera 2024 - Present

- Engaged in self-paced learning in Artificial Intelligence, Mathematics, Programming, Machine Learning, and Deep Learning. Completed courses from renowned institutions, covering topics varying from the basis to applications to build a solid foundation for AI applications.

TEDx Unicamp Limeira

UNICAMP 2023 - 2024

- As part of TEDx Unicamp Limeira's organization, I supervised partnerships, kept control of the financial aspects, maintained contact with collaborating companies, driving establiity and energy towards the event.

Student Life

UNICAMP

- I was part of Liestag, a student organization with a focus on building soft skills through the creation of courses, lectures and events based in Unicamp.
- In my volunteering part, I joined CVU - a non-profitable organization with the objective of developing projects to support marginalized communities in Limeira.
- I participated in the Student Monitoring Program provided by Unicamp, contributing on two occasions:
 - I was monitor for Graphic Expression, helping the professor by clearing student's doubts, planning didatic material and overseeing the study of graphical language and technical drawing for applications in Civil Engineering and Telecommunications using AutoCAD.
 - Assisted in the subject of Communication Networks (I), encompassing fundamental concepts of IP protocols and physical layers, as well as practical sessions on constructing Network Layers using Cisco Packet Tracer.