

GUILHERME NUNES TROFINO

[EN VERSION]

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EXPERIENCES

Quality Assurance Engineering Intern

Ansys, Synopsys

📅 6 months: 04/2025 – 10/2025

📍 La Farlède, France

In collaboration with the Ansys' Optics QA team, I helped improve the validation processes by **converting from manual to automatic** unitary tests using gRPC, IronPython, and Python, with the creation of improved **multivariable image comparison** Python function built with OpenCV saving as much as 20 hours of workload per software release.

Topics : [gRPC](#) [OpenCV](#) [PySpeos](#) [PyTest](#) [Speos](#)

Embedded Hardware Designer Intern

Synnav

📅 5 months: 04/2024 – 09/2024

📍 Vernon, France

In collaboration with an electronics engineer, I helped design one testing tool for the Syde product, enabling the creation of usage scenarios through a **Python library** that communicated via UART with an STM32H7 microcontroller programmed in C. Which allowed reliable and automatic scenario simulation, scaled the **quality control** process, and reduced reporting effort.

Topics : [C](#) [CubeIDE](#) [Embedded Systems](#) [STM32](#) [Python](#)

Retail Vendor Manager Intern

Amazon

📅 6 months: 09/2023 – 03/2024

📍 Clichy, France

In collaboration with a Senior Vendor Manager, I helped provide two tools to optimize business performance and drive sales growth: an Excel macro to **identify licensed selection twenty times faster**, allowing deep dives in large datasets, uncovering trends, and taking action; and a **comprehensive and visually appealing Dashboard** in Excel, facilitating benchmarking at various levels of granularity, simplifying the identification of growth opportunities and the implementation of new strategies.

Topics : [Data Analysis](#) [Data Visualization](#) [Process Optimization](#) [SQL](#) [VBA](#)

Neuroscience Research Intern

ISIR, Sorbonne Université

📅 3 months: 05/2023 – 08/2023

📍 Paris, France

Developing a user-friendly simulation environment using Webots and Python, facilitating the assessment of the **sensorimotor modelization** of the hippocampus based on the framework proposed by Benoît Girard and Sylvain Argentieri.

Topics : [Bash](#) [Git](#) [OpenCV](#) [Scikit-Learn](#) [Webots](#)

Head of Team

Phoenix Robotics Team of UNICAMP

📅 1 year: 07/2021 – 07/2022

📍 Campinas, Brasil

Improve Team Members' selection process, aiming for more diversity, resulting in the best inscription ratio, over 125 people from 500, and resulting in the **best percentage of women** among the approved, 16 from 35 people.

Topics : [Communication](#) [Leadership](#) [Project Management](#)

ÉDUCATION

MSc Engineering in Robotics

ENSTA Paris, Institut Polytechnique de Paris

📅 3 years: 2022 – 2025

📍 Palaiseau, France

Machine Learning, Image Analysis and Indexing, Deep Learning, Dynamics and Control of Systems, FPGA Xilinx, Kalman Filter, Software Engineering, Parallel Programming, Vision, Vivado HLS / SDK.

Topics : Extra research and innovation courses at the [École Polytechnique](#) during the final year.

BSc Engineering in Control and Automation

FEM, UNICAMP

📅 8 years: 2019 – ongoing

📍 Campinas, Brasil

Topics : Top 7% of class in double degree at ENSTA Paris.



I'm a 24 years old **Brazilian** holder of a BSc engineering degree in control and automation from UNICAMP and MSc engineering degree in robotics from ENSTA Paris.

I'm seeking a **full-time position** in software development ideally with hardware involvement, available to start from August 2026 and willing to move worldwide.

LANGUAGES

English : Fluent **C1**

French : Fluent **C1**

Portuguese : Native **C2**

Spanish : Intermediate **B1**

SKILLS

Programming : [Python](#) [JavaScript](#)

[C / C++](#) [LaTeX](#) [Bash](#) [Assembly](#)

[CSS / HTML](#) [gRPC](#) [IronPython](#)

[Java](#) [MATLAB](#) [VBA](#) [VHDL](#)

Softskills : [Agile](#) [Communication](#)

[Design](#) [Project Management](#)

[Leadership](#)

Tools : [Git](#) [GitHub Actions](#) [WSL](#)

VOLUNTARY

Paralympics Volunteer

Paris 2024

📅 2024 📍 Villepinte, France

Ambassador

Patronos UNICAMP

📅 2021 📍 Campinas, Brasil