

# GUILHERME NUNES TROFINO

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[EN VERSION]



## 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, saving as much as 20 hours of workload per software release. I also conducted the research and development of an improved **multivariable image comparison** Python function, enabling end-to-end test automation.

**Highlight:** gRPC, Image Comparison and Python.

### Embedded Hardware Designer Intern

#### Sysnav

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.

**Highlight:** C, Git and 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.

**Highlight:** Excel, SQL and 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.

**Highlight:** Git, Python and Webots

### Head of Team

#### Phoenix Robotics Team of UNICAMP

1 year: 07/2021 – 07/2022

📍 Campinas, Brazil

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.

**Highlight:** Communication, Leadership, and Project/Product Management

## EDUCATION

### Computer Engineering Degree, MSc 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.

**Highlight:** Extra research and innovation courses at the École Polytechnique during the final year.

### Control and Automation Engineering, BSc Engineering

#### FEM, UNICAMP

6 years: 2019 – ongoing

📍 Campinas, Brazil

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

## LANGUAGES

**Portuguese :** Native

**French :** Fluent C2 (CEFR)

**English :** Fluent C2 (CEFR)

**Spanish :** Intermediate B1 (CEFR)

## SKILLS

### Coding:

Assembly	Bash	C/C++
CI/CD	IronPython	LaTeX
Python	VBA	VHDL

**Tools :** Git, Docker, VSCode and WSL

**Adobe :** Illustrator and Photoshop

**Electronics :** Altium Designer

**Office :** Excel, PowerPoint and Word

**Softskills :** Communication, Leadership, and Project/Product Management

## VOLUNTARY

**Paralympic Games Volunteer**

**Paris 2024**

2024 ➔ Villepinte, France

Ambassador

**Patronos UNICAMP**

2021 ➔ Campinas, Brazil