

# GUILHERME NUNES TROFINO

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[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

**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.

**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 **sensormotor 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