

DIOGO BRAZ

Software Engineer

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📍 Lisbon 🌟 www.diogobraz.dev



EXPERIENCE

Team Leader & CO-Founder

MotoStudent competition

📅 01/2021 - 01/2024 📍 Almada, Portugal

- I led a multidisciplinary team in the development of a fully electric motorcycle prototype designed to compete in the international MotoStudent competition.
- Responsible for managing and coordinating 6 sub-teams, ensuring effective communication and collaboration across the project
- I served as the primary point of contact with partners and sponsors, driving the project's external relations, and getting 4 new sponsors for our project.
- I was actively involved in the electronics team, where my 7 colleagues and I focused on telemetry (frontend and backend), contributing to the optimization of the motorcycle's performance and efficiency.

Research Intern - Autonomous Sailboat Project

NOVA - School of Science and Technology

📅 07/2023 - 07/2023 📍 Almada, Portugal

- Part of a 3 person team at FCT-NOVA University
- Contributed to a research project focused on developing a fully autonomous sailboat
- Worked on integrating fuzzy control algorithms, the ESP32 microcontroller, and various sensors to enable autonomous navigation
- Collaborated on the design and implementation of control systems
- Troubleshoot sensor integration and fine-tuned the boat's responsiveness, increasing the accuracy of the sailboat movements by 10%.

Summer Internship

Electric Vehicle Chargers

📅 08/2022 - 08/2022 📍 Factory of Corroios

- Part of a team of 4 members focused on quality control for electric vehicle chargers
- Specifically responsible for drafting and ensuring the implementation of security protocols during the electrical testing phase of the chargers
- Collaborated closely with engineering teams to develop and implement a robust safety protocol framework for electric vehicle chargers, leading to the identification of critical hazards that reduced incident reports by 30%
- Contributed to maintaining the reliability and safety of the products and decreased the number of accidents.

EDUCATION

Bachelor in Electrical and Computer Engineering

NOVA-School of Science and Technology

📅 2019 - 2024

Master in Electrical and Computer Engineering

NOVA-School of Science and Technology

📅 2023 - Present

LANGUAGES

English
Proficient



Portuguese
Native



SUMMARY

I'm Diogo, a Master's student in Robotics and Digital Systems at NOVA School of Science and Technology. Motivated to develop robotics, artificial intelligence, and software development projects. Currently, I'm completing my dissertation on the Vehicle Routing Problem (VRP), leveraging machine learning and metaheuristic algorithms to optimize solutions. With a strong foundation in full-stack development (front-end & back-end) and experience in AI-driven problem-solving, I thrive in building scalable, with responsible design and innovative solutions.

TRAINING / COURSES

Full-Stack Career Path

Code Academy

Microservices with NodeJS and React

Udemy

Introduction to Artificial Intelligence with Python

CS50-Harvard Online

Web Programming with Python and JavaScript

CS50 - Harvard Online

SKILLS

Robotics React Node.js HTML

CSS Python Express.js

JavaScript GitHub Git

Data Structures PHP OpenCV

Java Pandas Jupyter Notebook

PyTorch MongoDB PostgreSQL

Jupyter Matplotlib Numpy

Microservices Docker Kubernetes

AWS GCP