



ABOUT ME

Organization and proactivity are my core values and guiding philosophies. Through them, I strive to add value to everything I engage in.

PROFESSIONAL SKILL SETS

SolidWorks • Inventor • Abaqus
Python • Photoshop • Excel

LANGUAGES

Portuguese – Native
English C1 • Spanish B2

ACTIVITIES AND INTERESTS

I was on various handball teams for a decade, which allowed me to develop teamwork, resilience, and discipline crucial for thriving in engineering.

During my academic journey, I played an active role in student associations, fostering collaboration, leadership, and contributions to student life.

Furthermore, my passion for data science and machine learning (ML) transcends the classroom, with applications in my master's thesis and my day-to-day life.

CONTACTS



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João Gamboa

Mechanical Engineering Student

ACADEMIC EDUCATION

Mechanical Engineering – University of Aveiro

M.Sc., Mechanical Engineering (2022-Moment)

B.Sc., Mechanical Engineering (2019-2022)

Dissertation: Training and testing XGboost-based machine learning models to predict the material constitutive parameters for sheet metal forming, characterizing the plastic behaviour of metallic sheets.

Paper — Esaform Toulouse 2024: “Influence Of Data Filtering And Noise On The Calibration Of Constitutive Models Using Machine Learning Techniques”

In: Materials Research Proceedings, Volume 41 (Apr. 2024), pp. 1807–1816., DOI: doi.org/10.21741/9781644903131

ACADEMIC ACTIVITIES

Motochanics UA — Motostudent

R&D and Racing Department (Oct 2019 – Moment)

Developed, dimensioned and manufactured a chassis for a racing motorcycle. Led parts manufacturing with external companies, fostering teamwork, CAD, CAM, FEA. Competing Internationally.

Startup – Mobility Operational Services

R&D Department (Oct 2021 – Jul 2022)

Led the development of an innovative wheelchair add-on for enhancing mobility. Presented the project in the Start for Future program to stakeholders, developing strong communication, elevator pitch, and negotiation skills.

PROFESSIONAL BACKGROUND

Jerónimo Martins

Campus Ambassador (Oct 2023 - Moment)

Proactively linked academia with corporate culture by showcasing the company's values, objectives, and student outreach programs.

Rodrimaq — Emílio Rocha & Rocha

CNC Operator Trainee (July – Aug 2023)

Functioned as a CNC operator, honing practical machining skills. Engineered and manufactured components for clients, addressing technical challenges, problem-solving and ensuring precision.