



## About Me

Organization, proactivity, and cooperation are my main values and guiding philosophies.

Through them, I aim to inspire my team and ensure that we add value to every situation we engage in.

## Professional Skill Sets

CAD • CAM • FEA • CAE

SolidWorks • Inventor • Abaqus

Python • Photoshop • Excel

## Languages

Portuguese – Native

English C1 • Spanish B2

## Activities and Interests

Played handball for over a decade, which allowed me to develop teamwork, and discipline crucial for thriving in engineering.

During my academic journey, I played an active role in student associations, fostering, 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.

## Contact Me



[My Website](#)



[gamboa.marques@ua.pt](mailto:gamboa.marques@ua.pt)



[in/joagamboam](https://in/joagamboam)

# João Gamboa

Mechanical Engineering Student

## Academic Education

### Mechanical Engineering – University of Aveiro

**M.Sc.**, Mechanical Engineering (2022-Moment) — 17,2 GPA

**B.Sc.**, Mechanical Engineering (2019-2022) — 12,3 GPA

**Dissertation:** Developed and tested ML models to predict material plastic behaviour in sheet metal forming processes.

- 1 Publication at ESAFORM and 1 Conference Presentation

## Professional Background

### Vulkan Additive Solutions

Co-Founder (Feb 2024 - Moment)

Helping companies reduce development time and manufacturing costs for 3D printing in the Medtech field.

### COFICAB — Companhia de Fios e Cabos Lda

New Projects Engineering Trainee (July - Aug 2024)

Basic understanding of infrastructure and operation proceedings for the development of new factories and production processes.

### Jerónimo Martins

Campus Ambassador (Oct 2023 - Jun 2024)

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 and did mechanical project and manufacturing for clients in the glass industry.

## Academic activities

### Motochanics UA — Motostudent

R&D and Data Analyst (Oct 2019 – Moment)

Developed and manufactured the chassis for a racing motorcycle (CAD, CAM, FEA). Conducted data analysis to optimize motorcycle performance (Telemetry).

### Startup – Mobility Operational Services

Co-Founder (Oct 2021 – Jul 2022)

Developed an innovative wheelchair add-on to enhance mobility and presented it to stakeholders, strengthening negotiation skills.