

# JOÃO PEDRO SOUSA GASPAR



## Education

### Master's degree in Aerospace Engineering

Sep 2022 – Now

*Instituto Superior Técnico*

- Aerodynamics and Propulsion specialization
- **Key subjects:** Incompressible and Compressible Aerodynamics, Helicopters, Computational Fluid Dynamics, Aircraft Optimization, Electric Propulsion for Aircraft, Project Management
- **Thesis Subject:** Pararotor Recovery System Design

### Bachelor's degree in Electronics Engineering

Sep 2019 – Jun 2022

*Instituto Superior Técnico*

- **Key subjects:** Digital Systems, Communications Systems, Embedded Systems, Instrumentation and Signal Acquisition, Micro and Nanoelectronics, Computer Networks, Fundamentals of Automatic Control, Electronic Devices, Management

## Experience

### Scholarship

Nov 2021 – Jan 2025

*ROB9-16 & Project "Oeiras Educa"*

- Led STEM workshops and activities for thousands of children under the ROB9-16 project at Instituto Superior Técnico.
- Collaborated with Câmara Municipal de Oeiras to develop educational programmes, lectures, and student projects.
- **Developed Skills:** work with children, public speaking, teaching, communication

### Técnico Fuel Cell

Jul 2022 – Apr 2024

*Electrical Engineer*

- Development of a telemetry system for a hydrogen powered car for Shell Eco-Marathon competition
- **Developed Skills:** electronics, PCB design, circuits and systems design, laboratory work

## Volunteering

### Mentor

Sep 2020 – Jul 2022

*NAPE - IST*

- Welcome and integrate new students to the school

### Projeto "Salas de Estudo Online"

Sep 2021 – Jan 2022

*Núcleo de Desenvolvimento Académico - IST*

- Providing personalized classes for the first years students helping with projects and examinations

## Certifications

**Advanced Certificate in English** - 2019

**First Certificate in English** - 2018

## Hard Skills

**Programming Languages:** Matlab, Python, C

**Software:** Simulink, LabView, Solidworks, STARCCM+

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