

# Ricardo Santos

Aerospace Engineering

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## Education

### MSc in Aerospace Engineering

Instituto Superior Técnico

GPA 16.79

2024 - Currently

(out of 20)

### BSc in Aerospace Engineering

Instituto Superior Técnico

GPA 15.58

2016 - 2019

(out of 20)

### High School Science and Technology Degree

Escola Dr. Mário Sacramento

GPA 18.7

2013 - 2016

(out of 20)

## Experience

### Software Engineering Intern — Six Floor Solutions

Summer 2024

- Developed data analysis software for internal use
- Improved upon existing Raspberry project using JavaScript
- Improved upon existing Audio Processing project using Python and Bash scripts

### Electronics Assembler — Inforlandia

2023

- Worked in the assembly of computers and electronic devices

### Teacher (Programming) — Happy Code Portugal

2019

- Prepared lessons and guided students through various coding projects

## Tech Skills

- **Programming:** C, JavaScript, MATLAB, Python, React, Rust (learning)
- **Simulation:** Altium, Cadence, CST, LTSpice, SimaPro, Simulink, Xilinx
- **Modelling:** SolidWorks
- **Documentation:** Office Suite, LaTeX, Adobe InDesign
- **Multimedia:** Adobe Flash Professional CS6, Adobe Illustrator CS6, Audacity
- **GameDev:** Blender, Unity

## Languages

- **Portuguese:** Native language, fluent speaking/writing ●●●●●
- **English:** Cambridge C2 equivalence, fluent speaking/writing ●●●●●
- **Spanish:** Conversational level, basic speaking and comprehension skills ●●●●○
- **German:** Beginner level, student of the language, enjoy working with it ●○○○○
- **Greek:** Beginner level, student of the language, enjoy working with it ●○○○○
- **Hindi:** Beginner level, student of the language, enjoy working with it ●○○○○

## Skills

- Hard work** ●●●●○
- Organization** ●●●●●
- Leadership** ●●●○○
- Problem Solving** ●●●●○
- Teamwork** ●●●●●
- Flexibility** ●●●●○

## Extra-Curriculars

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### **IST Run Lisboa**

2017-2019

- University running group with training sessions twice a week
- Took part in organisation and promotion of events

### **49<sup>th</sup> International Physics Olympiad**

Summer 2018

- Worked as a volunteer and guide to participants
- Was responsible for the Egyptian delegation

### **Aerotéc**

2017-2018

- Worked in the design of a student issued magazine in 2017
- Worked in the organization of events

### **International Rocketry Workshop of Terrassa**

Summer 2017

- Workshop consisting in a design competition of model rocket
- Participated as a member of the Euroavia Aerospace Student Association

### **BEST Inside View 7<sup>th</sup> Edition**

2017

- Job shadowing and mentoring event organised by BEST
- Spent a day in the installations of the companies ITG, Sintra, and CLC, Aveiras

## Myself

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- **Self-taught Game Developing:** Completed a small 2D platformer demo with one level
- **Freelance animation:** Have produced videos with, in total, more than 2.9 million views on YouTube. Experimented extensively with Blender 2.5D
- **Ultra marathon project:** Trained for several ultra marathons having completed a Marathon, a 34 km mountain race in Azores in 2018, a 42 km, 49 km and 55 km races with different levels of difficulty
- **Self-taught piano player:** Trained half an hour to an hour everyday for two years and learned pieces from Debussy and Chopin
- **Self-taught language learner:** Frequently listen to audio lessons and use memory cards for writing and reading practice (approx. 700 cards/year). Currently learning Greek.

## Portfolio

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