

ANTÓNIO MORAIS

BC's degree in Electrical and Computer Engineering

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I am a third-year student at IST, Lisbon, studying Electrical and Computer Engineering. I am fluent in English and currently working on improving my Spanish skills. Spending time outdoors and hanging out with friends is a must. Challenges excite me, and I thrive on overcoming them. I enjoy learning and collaborating with others. I am always striving to improve personally and professionally. My interests include Robotics, Control, Computer Architecture and Programming.

PROJECTS

Member of the SocRob@Home team

Institute For Systems and Robotics @IST

Nov 2023 - Present Lisbon, Portugal

- I am part of a team of 6 students integrated within SocRob@Home (total of 13). Each member of my team is working towards the final project of their bachelor's degree.
- The overarching objective of the investigation project is to study robot-human interactions and evaluate the work conducted at RoboCup 2024, the world's largest robotics and artificial intelligence competition.
- I am currently involved in transitioning a 2D sensor to a 3D sensor-based navigation system, with a primary focus on 3D mapping. My work involves testing SLAM algorithms such as A-LOAM and LIO-SAM, both in simulation and on the real robot.
- Our team of 6 is also developing the navigation project's website: <https://web.tecnico.ulisboa.pt/ist1102644/>.

<https://irsgroup.isr.tecnico.ulisboa.pt/projects/socrob-home/>

EXPERIENCE

Team Leader of the Speakers team

Journeys of Electrical and Computer Engineering (JEEC|24)

Mar 2024 - Present Lisbon, Portugal

- After being a member of the team, I was invited to become the Team Leader.
- As of now, I am recruiting new members for the team and planning the work schedule for the next edition of the event. This also involves establishing objectives for next year's edition.

Member of the Speakers team

Journeys of Electrical and Computer Engineering (JEEC|24)

Mar 2023 - Mar 2024 Lisbon, Portugal

- I researched and reached out to engaging speakers for talks or participation in board discussions. This helped me enhance my communication skills and conduct autonomously.
- Additionally, I refined my organizational, time management, and problem-solving skills through responsibilities such as coordinating travel logistics and accommodations, engaging in discussions regarding presentation content, and overseeing event marketing efforts.
- The event drew in more than 500 students, requiring creative and innovative planning to engage them effectively. Throughout the event, I contributed to various tasks such as logistics, marketing, engaging with companies, and more. Additionally, I supported speakers and introduced their talks to the audience.

<https://jeec.ist/>

Quality Sector - Foreign Bodies

Italagro

Aug 2022 - Sep 2022 Lisbon, Portugal

- Product quality check. Gave support to co-workers in a laboratory environment. Completion of technical sheets.

EDUCATION

BC's degree in Electrical and Computer Engineering

Instituto Superior Técnico

Sep 2021 - Present Lisbon, Portugal

Relevant grades:

- Modeling and Simulation: 19/20.
- Control: 18/20.
- Probabilities and Statistics: 18/20.
- Concurrent Programming: 16/20.

Current average: 15.56/20.

High School Diploma in Sciences and Technologies

Escola Secundária Alves Redol

Sep 2018 - Jul 2021 Lisbon, Portugal

Grade: 17.1/20.

EXPERTISE

- Written 5000+ lines of C.
- Written 1000+ lines of LaTeX.
- Written 500+ lines of MATLAB.
- Written 500+ lines of R.
- Written 300+ lines of RISC-V.
- Written 200+ lines of Python.
- I have 2 years of experience on simulating circuits with LTSpice.
- Currently working with Docker for the SocRob@Home project. Using it to run the A-LOAM algorithm.
- Work on a daily basis with Git and GitHub.
- I have 6+ months of experience working with ROS, Rviz and Gazebo.
- I work daily with both Windows OS and Linux Ubuntu 20.04 OS.
- Learning Java this semester.

STRENGTHS

Hungry learner

Leadership skills

Adaptability

Communicative

LANGUAGES

Portuguese

Native

English

C1

Spanish

A1

EXPERIENCE (CONTINUED)

Receptionist

Vila Franca de Xira City Council

Aug 2022 Lisbon, Portugal

- Welcomed visitors at the municipal museum. Answered and redirected phone calls.
- Ensured the maintenance of the exhibition.

VOLUNTEERING

Registration team member

Web summit

Nov 2023 Lisbon, Portugal

- Had the privilege of welcoming and interacting with professionals from various companies, connecting faces to names, and engaging in insightful conversations about the latest industry trends.
- Attended inspiring talks across the event, gaining valuable insights from thought leaders shaping the future of technology and business.
- The spirit of volunteerism was truly present, and everyone was happy to be there. I had the opportunity to make many connections and friends.

Volunteer

Journeys of Electrical and Computer Engineering (JEEC|22 & JEEC|23)

Mar 2022 & Mar 2023 Lisbon, Portugal

- Prior to joining the Speaker's team, I volunteered for 2 consecutive years. I had my first encounter with the job market related to my field of study. During the event, I had various responsibilities, such as distributing flyers, assisting the team with logistics tasks, and ensuring the well-being of the company representatives.
- I had the opportunity to network with the attending companies, which allowed me to expand my contact network and deepen my knowledge of the market.

Student's Mentor

NAPE

Sep 2022 - Present Lisbon, Portugal

- As a mentor, I had the responsibility of guiding a group of 6 freshmen on their first day of university. I gave them a guided tour of the university and shared my experience as a student at IST.
- Currently, I am available to assist my mentees with any help they may need.

HONORS AND AWARDS

- Axians Scholarship 2023/2024 recipient.
- Academic merit 2022/2023 in Electrical and Computer Engineering.

HOBBIES AND CURIOSITIES

- Play sports (mainly football).
- Skate.
- I have a particular taste for Norse mythology. I enjoy learning and reading about it.
- Play video games.
- Watch shows or movies.
- Exploring new places and meeting new people.