



# AFONSO MENDES



Master's in Telecommunications and Informatics Engineering

+351 968 404 237 | Oeiras, Lisbon, Portugal | afonsomendes.tech@gmail.com  
linkedin.com/in/afonso-figueira-mendes

I am a technology enthusiast focused on mobile networks, management and information systems, security, and network architectures. I enjoy solving complex problems and bring an organized, committed approach to every project. I highly value teamwork, I am an open communicator who connects easily with diverse groups, and I adapt quickly to any project dynamic. I am highly motivated to apply my technical expertise within a business context and contribute to innovative projects.

## Academic Path

**Master's degree in Telecommunications and Informatics Engineering**  
**Instituto Superior Técnico – University of Lisbon**  
(September 2025 - 2027)

Double specialization in Telecommunications Systems & Network and Systems Management. I am acquiring technical expertise in mobile networks, network architectures and technologies, optical networks, as well as business processes and information systems applied to infrastructure management and operation.

**Bachelor's degree in Electronics, Telecommunications and Computer Engineering**  
**Instituto Superior de Engenharia de Lisboa**  
(October 2021 – July 2025)

It has provided me with a solid, interdisciplinary foundation in three core engineering fields: programming (C, C++, Java, Python), telecommunications (network protocols, simulation tools such as Packet Tracer and VirtualBox, transmission systems, and radio communications), and electronics.

## Key Projects

**Centurion (Vehicular Networks - Master's Course Unit)**  
(November 2025 – January 2025)

Together with my group, I developed a smart helmet for e-scooter riders based on C-ITS principles, featuring vehicle detection through GPS and ultrasonic sensors.

**5G network based on open-source software (Mobile Communication Networks – Master's Course Unit)**  
(September 2025 – October 2025)

A project with open-source implementations of the 5G core that enabled the creation of private 5G networks, making it possible to build end-to-end 5G networks.

**CSS-LoRa Signal Collision Characterization and Assessment (Final Course Project – Bachelor)**  
(February 2025 – July 2025)

Project focused on LoRa signal characterization, collision and interference analysis, signal processing, and hardware-software integration, using Arduino IDE for control, SDRSharp for monitoring, and MATLAB for data analysis.

## Languages

Portuguese – Native  
English – C1

## Activities & Volunteering

**Ambassador Program**  
**NOS SGPS**  
(September 2025 – At the moment)



I represent NOS within the university community, promoting the brand and career opportunities while developing communication, proactivity, and teamwork skills.

**External Relations Department Member**  
**JET – Jornadas Tecnológicas e Empresariais**  
(September 2025 – At the moment)



At the largest job fair at IST – Oeiras Campus, I contribute to the connection between companies and the academic community, fostering a dynamic environment where recruitment, networking, and collaboration opportunities emerge.

**BEST Entrepreneurship Experience**  
**BEST Lisboa**  
(2026)

Participated in an entrepreneurship competition to solve corporate challenges through engineering principles, applying innovation methodologies and business modeling to deliver high-impact solutions with a professional pitch.

**Missão País**  
(February 2026)



An enriching volunteer experience, where I took part in social initiatives, community support, and human development in local communities.

**Volunteer**  
**Web Summit Lisbon**  
(November 2023 & November 2024)



I had the opportunity to join the Web Summit Response & Support team for two editions, providing direct assistance to attendees and internal teams.

**Ambassador Program**  
**ISEL in Futurália**  
(March 2023)

I helped primary and secondary school students make informed decisions about the academic paths best suited to their interests, while developing communication and mentoring skills.

## Hobbies

Padel, Tennis, Gym & Running