Álvaro Estévez Rodríguez

TELECOMMUNICATIONS ENGINEERING STUDENT

in in/alvaroesro · AlvaroEsRo · aestevezro@gmail.com · (+34) 680 633 991 · Madrid

I am in my last year of **Telecommunications Engineering** at Universidad Politécnica de Madrid. I have a strong interest in telecommunications technology and systems, and I am always looking to expand my knowledge in this area and apply it to real-world challenges.

RELEVANT PROJECTS

Jukebox System using STM Core
May 2024

- Created a jukebox system using an STM core, interfacing with a buzzer for audio output.
- Programmed the entire jukebox functionality in **C**, including features for displaying a list of saved songs on-screen.
- Implemented functionalities to play a startup and shutdown melody, skip, pause, and resume songs, as well as adjust the playback speed.

Car Review Website
Feb 2024

- Developed a website where users can post reviews about their cars.
- Programmed both the backend and frontend, integrating a database to efficiently store user reviews.
- Implemented features such as user account creation, post submission, and a car rating system.
- Utilized technologies like **HTML, CSS, JavaScript, Node.js**.

Digital Thermometer for Basys 2 FPGA
Dec 2023

- Developed a digital thermometer implemented on a Basys 2 FPGA board.
- Designed a circuit that included a temperature sensor, an amplifier, and an analog-digital converter.
- Programmed the signal processing and temperature reading functionalities using **VHDL**.
- Displayed the converted temperature values on an LCD screen, providing real-time temperature readings.

EDUCATION

Bachelor in Telecommunications Technologies Engineering
Sep 2020 - July 2025

Universidad Politécnica de Madrid | Among the top engineering universities of Spain

- Gained proficiency in programming languages including **Java**, **JavaScript**, **HTML**, **CSS**, and **C**.
- Learned about wireless communications technologies and their implementation.

LANGUAGES

Spanish (Native), **English** (Fluent), and **German** (Understanding)

CERTIFICATIONS

Qualcomm **5G** Introductory-Level Certificate
May 2024

- Covered key aspects of **5G** technology and its applications.