

Tiago Aleixo

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Curious and driven by a deep love for learning, I'm passionate about exploring how systems work and constantly seek new challenges to grow as a network and systems engineer. I am currently pursuing a Master in Network and Information Systems Engineering and a CCNA (Cisco Certified Network Associate).

I'm especially drawn to low-level programming with C and C++, Linux systems, and network technologies like Cisco IOS and routing protocols — I love working close to the metal, building resilient and fast network infrastructures."

EDUCATION

FCUP - Faculty of Sciences, University of Porto

Expected: June 2026

Master in Network and Information Systems Engineering

- **Relevant Coursework:** Cryptography, Network Administration, Network Security, Systems Administration.

FEUP - Faculty of Engineering, University of Porto

Bachelor in Informatics and Computing Engineering

- **Relevant Coursework:** Compilers, Computer Networks, Design of Algorithms, Distributed Systems.

WORK EXPERIENCE

Schmitt + Sohn Elevadores

Feb. 2025. - May 2025

Intern

- Currently developing and implementing clustering, TSP and simulated annealing algorithms as part of a full-stack application built with Angular, Java Spring Boot, and PostgreSQL.

BindTuning

Aug. 2022.

Intern

- Developed a system that allows potential clients to easily test the company's features through a customized trial website, automatically generated to match their existing business site.

SOFTWARE PROJECTS

Nintendo NES emulator - github.com/itsnova204/NES_Emulator-LCOM

- A software clone of the iconic [first Nintendo console](#) built entirely in C with the ability to support real NES controllers and using its own device drivers to run in [Minix3](#).
- In this project I was responsible for designing and implementing the complete emulator engine from reading the cartridge to pixels on the screen.
- [Video Demo](#) - youtu.be/zcQ03VqHwBw.

AuctionPeer - github.com/itsnova204/auctionpeer

- A fully functional deployment ready auction website built on top of laravel and using a postgresQL database.
- In this project I was focused primarily on the design and development of the back end and real time communications.

OwlSort - github.com/itsnova204/OwlSort-AI

- A fun game where you are tasked to sort different colored birds in their branches. With various AI algorithms to help you along the way.
- In this project I was mainly responsible for creating the algorithm dispatcher using threads and inter process communication and implementing heuristic search algorithms, while also contributing across the entire project.

STUDENT GROUPS

IEEE UPSB - Institute of Electrical and Electronics Engineers - UP Student Branch Mar. 2025 - Ongoing Computer Society - *Member*

- Currently developing a scalable server cluster and secure network infrastructure using Proxmox and Linux routing to host internal services, improving team collaboration and resource efficiency.

Nucleus of Computer Graphics and Multimedia

Sep. 2023. - Oct. 2024

Member

- Participated in organizing events, workshops, and collaborative projects focused on enhancing students' understanding of visual computing and interactive media.

Nucleus of Computer Science

Mar. 2021. - Dec. 2022

Member

- Participated in organizing events, workshops, and collaborative projects focused on increasing students' excitement in computer science related topics.

Club of Informatics

April. 2016. - May. 2019

President

- Led a Highschool club focused on bringing students excited about computer science and electronic engineering together to create events and participate in competitions.
- 3rd Place at the national engineering competition Ilídio Pinho Foundation “Ciência na escola” award.

VOLUNTEERING

Code Children

Early 2020

- Taught coding fundamentals to kindergarten students using visual programming tools like ScratchJr.

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** Currently pursuing **CCNA** (*Cisco Certified Network Associate*)
- **Skills:** Project Planning, Problem Solving, DevOps, C, C++, Java, Javascript, Php, Haskell, Bash, Python, Git, Linux, Microsoft Azure, CI/CD Pipelines, Cisco IOS, Linux Routing, OSPF, Vlan, Firewalls, Networking, Angular, Java Spring Boot.
- **Interests:** Electronics, Automation, DIY Home Projects, Building Computers, Boxing, Gaming.
- **Languages:** Portuguese - native, English - fluent, German - early learning stages.