

HOCINE MEDIANI

Engineering internship – technical support for test equipment development

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Toulon, France

hocinemediani.github.io/eportfolio

EXPERIENCE

First-year worker internship

A.S.I.G Protection

June 2025 – July 2025

Toulouse

Creation of schedules for security guards, administrative assistance
On-site physical guarding of private and public sites

- Professional rigor • Time management

PROJECTS

Simulation of a UART on Nexys 4

School project

Design of the different logic units making up the UART.
Synthesis and implementation of the components on a Nexys 4 board.
Testing of data sending and receiving using the Minicom terminal.

- FPGA • VHDL • Vivado • GTKWave

Simple's Adventures

Personal project

Development of a 2D RPG in a team of 6 people.
Design of a custom game engine (events, collisions).
Integration of a real-time map editor.

- Java • Graphic design • Team spirit • Initiative-taking
- Communication

Huffman compression

School project

Design of a system for compression and decompression of binary files.
Encoding in a custom ".hff" format, with a compression rate of up to 70%.
Project carried out in a small team of 2 people.

- Ada • Linux • Git • Initiative-taking • Writing quality

Interconnection and simulation of AS

School project

Design of an AS (Autonomous System) similar to an internet service provider.
Implementation of access security and of private and public sites.
Implementation of DNS, web services, and remote access via VPN.

- Docker virtualization • Networks • Network administration
- Network architecture

EDUCATION

Engineering degree in Digital Sciences

ENSEEIHT, Toulouse

Sept 2024 - Sept 2027

Preparatory cycle PCSI/PSI

Lycée du Parc, Lyon

Sept 2022 – June 2024

General scientific Baccalauréat

Institution Notre Dame, Toulon

Sept 2019 – June 2022

- Baccalauréat with highest honors
- Cambridge Certificate B2 level
- Aeronautical initiation certificate

COMPÉTENCES

Team spirit Writing quality

Initiative-taking Communication

Git FPGA VHDL Python Ada
Java Linux C Docker Networks

LANGUAGES

French (Fluent)



English (C1)



Arabic (Advanced)



Spanish (Intermediary)



Chinese (Beginner)



HOBBIES

Weightlifting

Cooking

Game dev / Video games

Car mechanics