

# Quentin Pointeau

Student at ENSEEIHT engineering school



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## — Profile

As a second-year Digital Science student at ENSEEIHT, I am seeking an internship to enhance and deepen my skills in the fields of system architecture and networks.

## — Experiences

2023 - Now

### PHOTO7

As the Vice President of the ENSEEIHT Photographic Association, I co-organize photographic events, including managing teams of photographers, publishing the albums produced, and maintaining the association's IT services. During my term, I have published over 8,000 photos and generated more than 20,000 visits to the website.

2024

7 WEEKS

### HOTEL INTERNSHIP IN JAPAN

During a language study trip to Japan, I attended three weeks of Japanese classes in Tokyo, followed by a four-week internship at a traditional hotel in the Japanese countryside.

## — Academic projects

2025

### MINI-OS X86

Development of a mini operating system in C for x86 architecture. Management of virtual memory, inputs/outputs, interrupts and processes.

2024

### INTERCONNECTION NETWORKS

Built an interconnection network of an ISP. Implementation of services (DNS, Git, Web Server, VoIP, etc.) and access networks (NAT, DHCP, etc.). Use of Docker for simulation. Use of tools like Wireshark.

2024

### UART FPGA

Development of an UART (Universal Asynchronous Receiver Transmitter) in VHDL on a Nexys4-DDR FPGA programmable board. Manipulation of synchronous and asynchronous signals.

2024

### MINISHELL

Development of a Linux shell in C with some basic features. Using POSIX standardized system calls.

## — Hard skills

Configurations réseaux      Programmation système, kernel

C      OS : Linux

Java      Git

VHDL      Docker

## — Educations

### ENGINEER SYSTEMS, ARCHITECTURE AND NETWORKS

Toulouse INP - ENSEEIHT

2023 - Now

### CLASSE PRÉPARATOIRE AUX GRANDES ÉCOLES MATHEMATICS, PHYSICS AND COMPUTER SCIENCE

Pierre de Fermat - Toulouse

2021 - 2023

## — Languages

French (native language)

English (B2)

Japanese (notions)

Spanish (notions)

## — Interests

**Tennis** : practice in club for 12 years.

**Photographie** : vice-president of the Photo7 association, personal photographic outings.

**Vidéo** : sound manager for the TVn7 association, creation of short films.

**IT curiosity** : installation and configuration of a personal NAS (and soon VPS), reading hardware news, etc.