



# Niels Ouvrard

Research opportunity in  
low-level GPU programming

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## Skills

Software development  
Algorithms  
Data structure  
Git  
...

## Languages

C, C++, Python  
Swift, Metal  
Vue3, PHP, Typescript  
Godot4

## Languages

French: Native  
Spanish: Very good  
English: Good

## Objective

4th-year Computer Engineer student with strong knowledge in C/C++. I am looking for a 6-month part-time opportunity in **low-level GPU development** starting from **September 15, 2025**.

## Professional experiences

Indienov - **Embedded Development** and Python (February – May 2024)

Developed a test harness and a driver in C for a "Texas Instruments LP5521" LED based on the manufacturer's documentation. Also created various production tools in Python, such as developing a class for connecting to AWS servers using canonical requests, for a unit testing software in MQTT.

Epitech Trainer (2023 – 2024, 10 months)

Trained first and second-year students in C and C++. Delivered lessons on C libraries, project presentations, and evaluations for two groups of 60 students each.

FrenchFounders – **Frontend development** (June – December 2022)

Created multiple web pages using Vue.js, integrated with the company's backend, and migrated several pages from Vue 2 to Vue 3.

## Formation



**MASTER IN COMPUTER ENGINEER | EPITECH MARSEILLE**

**2021 – 2026**

**GPA 3.8 / 4.**

Valedictorian in the second year.

*Grade Point Average (GPA): An index of the overall quality of a student's work, ranging from 0 (unacceptable) to 4 (excellent)*

**UNIVERSIDAD PANAMERICANA | GUADALAJARA, MEXICO**

**JUNE 2024 – JULY 2025**

Specialization in video game, microcontrollers, and mathematics (linear and geometric algebra, quaternions...).

## By myself



Apple Metal API

Self-learner of **Metal 3**, using 'Metal by Tutorials' by Begbie C. Familiar with low-level GPU programming concepts, including rendering pipelines, compute operations, and advanced graphics techniques.

## Interests



**Sports:**

I have been practicing rock climbing in a club since 2017.

**Cinema:**

A cinema enthusiast, I have been greatly influenced by the films of Hitchcock, Tarantino, and Kubrick.