

OSCAR CAUX

ENGINEER STUDENT , ESILV / CREATIVE TECHNOLOGIST

ABOUT ME :

Seeking an internship in engineering or technological innovation. Interested in Computer Vision, AI, Embedded Electronics, Robotics and cutting edge technologies.

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Paris - La Défense

[My LinkedIn](#)

EDUCATION

Institute for Future Technologies – Master of Science

Paris la Défense, France

Creative Technology Major – AI-Computer Graphics. How To Make Almost Everything, Creative Thinking, Sustainable Design, Hardware and Software for good.

2025-2027

Hanyang University – Engineering Department

Seoul, South Korea

International Exchange Program (1 Semester). Engineering and Startup Management courses.

February 2025- June 2025

ESILV – École Supérieure d'Ingénieurs Léonard de Vinci

Paris la Défense, France

Generalist Engineer Degree – Institute for Future Technologies, AI-CG track.

2024-2027

Classes Préparatoires MPSI/MP – Lycée Joffre

Montpellier, France

2022-2024

ACADEMIC & ASSOCIATIVE PROJECTS

Camera T-1: A Handheld Geo-Archival Device, CHI 2026 Submission – 2025

Hardware & Prototyping : Electronics prototyping, CAD modeling, 3D printing, Raspberry Pi integration, Peripheral management (Rotary encoders, Screens).

Software & Backend : Python, Tkinter, SSH, Server development, Database management, Automated scripting, AI & API integration.

AI / Computer Graphics Projects, IFT – 2025

TinyGrad MNIST Classifier : End-to-end deep learning pipeline using tinygrad (MLP & CNN), deployed with WebGPU for real-time browser inference.

WebGPU Ray-Marching Scene Editor : Interactive 3D editor built with ray-marching and WebGPU, featuring real-time object manipulation and lighting.

Browser-Native RAG Engine : Client-side Retrieval-Augmented Generation system for semantic search and QA over documents, fully local and privacy-first.

VINCI ECO DRIVE – Embedded Systems Team – 2024 / 2025

Embedded Systems Team : utilizing sensors (IMU, GPS, etc.), Arduino and Python. Involved in Printed Circuit Board (PCB) design, soldering, and electronic integration into an efficiency prototype for the Shell Eco-Marathon.

PROFESSIONAL EXPERIENCE

Multi-skilled Employee – Aqualand (Summer Seasons 2024 & 2025)

Cash handling, autonomous point-of-sale management, and customer relations. Responsible for production and facility maintenance.

Multi-skilled Employee – McDonald's (2024-2025)

Successfully managed simultaneous studies and work, developing discipline, respect for hierarchy, and rigor.

TECHNICAL SKILLS

Programming : Python, TinyGrad, PyTorch, C#, JavaScript, HTML, CSS

Electronics : Embedded Systems, Sensors, PCB Design, Soldering, KiCad, Altium

Software : Solidworks, Unity, Fusion360, Rhino, Photoshop, Vegas Pro, and others.

Soft Skills : Complex Problem Solving, Technical Communication, International Environment Collaboration, Creativity, Adaptability, Rapid Learning

LANGUAGES

French : Native Language **English :** B2+ TOEFL, expected bilingual level after university exchange

Espagnol : A2 Level

INTERESTS

Video Games, Artificial Intelligence, Biotech, Sustainable Development, Start-Ups, Cinema, Design.

SPORTS

MMA (current), Boxing, Rugby (competitive level), Tennis, Triathlon.

AVAILABLE FOR A 4 TO 5-MONTH INTERNSHIP STARTING IN APRIL 2026.