Clement Viellard

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LinkedIn | GitHub

Engineering student seeking a 6-month internship starting January 2027.

Education

ECE Paris – Graduate School of Engineering, Paris, France — September 2022 – September 2027
Engineering Degree (Master's equivalent) – Embedded Systems Specialization (Aeronautics & Space), International Track

- Relevant coursework: embedded systems, microprocessors, real-time systems, machine learning, software engineering, project management

University of Ruse, Ruse, Bulgaria (Erasmus Exchange) — September 2024 – January 2025
Engineering University

- Coursework: Microprocessors, Business Management, Machine Learning, International Economics, Project Management

Work Experience

Accenture, Paris, France — April 2026 – August 2026
Firmware Embedded Engineer Associate / AI Engineer – Embedded Systems

- Development of 3 industrial business-application prototypes
  - Design of process-analysis tools based on an independent data digital twin (UNS architecture) and a local, in-browser AI stack (Silero VAD, STT) (WebAssembly/ONNX)
  - The system integrates fine-tuned LLMs (RAG, tool calling, harness) and extends to full multimodal ingestion (audio, video via VLM, sensor streams) to run autonomous AI agents dedicated to specific business tasks

JEECE (Student-Run Business, ECE Paris) — June 2025 – July 2026
Head of Information Systems & Data Protection Officer (DPO)

- Led a team of 3 and oversaw internal software development projects as well as client-facing digital service offerings
- Managed information systems strategy, data protection compliance, and project delivery using Agile methods

CEA (French Atomic Energy Commission), Fontenay-aux-Roses, France — January 2024 – February 2024
Internship – Nuclear Security and Safety Directorate

- One-month immersion within the nuclear security and safety directorate
- 7-day immersion in the S3i cybersecurity team: incident report writing, penetration testing exposure, crisis management
- Cross-functional exposure to other security- and safety-related teams

Microsoft, Issy-les-Moulineaux, France — June 2019 – July 2019
Internship – Discovery Program (Commercial Executive track)

- Contributed to a group project designing and pitching a tech product concept within one week

Projects

Neural Network Visualizer — 2026
Interactive 3D visualization of any neural network (CNN, Transformers, LLMs, VLMs) in the browser: one-click model import with format auto-detection (PyTorch, ONNX, HuggingFace, Keras), unified intermediate representation, WebGL viewer (Three.js). GitHub

vLLM on native Windows + AMD ROCm — 2026
Major upstream contributor: working `vllm serve` on Windows (RDNA3), native GPTQ/AWQ Triton kernels, fp8 KV cache; RX 7800 XT validated at 81.9 tok/s. GitHub

4D Particle Simulation — 2026
Real-time 3D particle simulation in Rust rendered with wgpu: GPU compute-shader physics, single instanced draw call for all bodies, LOD tile merging and off-screen culling tuned live from an in-app debug panel. GitHub

Technical Skills

Programming Languages: C/C++, Assembly (ASM), VHDL, Python, Rust, Java, TypeScript, SQL/NoSQL, MATLAB
Frameworks & Tools: Node.js, Next.js, Drizzle ORM, Docker, Portainer, Dockploy, Coolify, Three.js/WebGL, wgpu
AI / ML: LLM fine-tuning, RAG, tool calling, AI agents, ONNX, WebAssembly, VLM, speech-to-text
Project Management: Agile (Kanban, Scrum), resource planning, project tracking and reporting

Collaboration & IT Tools: Atlassian Suite (Jira, Confluence), Google Workspace, Slack, Azure Workspace
Languages: French (native), English (C1 – TOEIC 945/990), Spanish (basic)

Certifications

- Anthropic & Accenture – Code 101, Partner Badge, and Reinvention with Agentic AI
- TOEIC: English C1 – 945/990
- Driving License (Category B)

Extracurricular Activities

- Peer Tutor, ECE Paris – September 2025 – July 2026
- Academic immersion program, Reading, United Kingdom – 2018
- Academic immersion program, Salamanca, Spain – 2018
- Sports: Swimming, Basketball, Football