



Alexis de Lécluse

Engineering Student · Image & Multimedia

ENSEEIHT · Toulouse

Engineering student at ENSEEIHT, focused on computer vision and embedded AI. Experience in Edge AI and multimodal models.

Seeking a 9-week second-year engineering internship in embedded AI / computer vision, starting June 2027

EDUCATION

ENSEEIHT – INP Toulouse 2025 — 2028
Image processing, computer vision

Scientific Preparatory Program 2023 — 2025
Prépa INP (Grenoble)

EXPERIENCE

Internship — Embedded AI Engineer JUN — JUL 2026
Delair, Labège

- **Benchmarking and optimization of YOLOv8 / v11 models** on NPUs (Pi AI camera, iMX95): fine-tuning, INT8 quantization, real-time video stream
- **Graph surgery on YOLOv8n**: 17 → 36 FPS on i.MX95 (+112%), with a relative mAP@50 loss below 5%.
- **Embedded Linux deployment with Yocto** and real-time monitoring setup: FPS, NPU latency, CPU load and temperature.

Edge AI · Computer Vision · Embedded Systems

Internship — Cleanroom Operator MAY — JUN 2025
Lynred, Grenoble

Assembly of infrared sensors in a cleanroom.

PROJECTS

Laser-Guided Counter-Drone Defense

Ongoing engineering study for a defense start-up through N7 Consulting, the Junior Enterprise of ENSEEIHT. Development of the computer vision algorithms for target detection and tracking.

Computer Vision · Object Tracking · Defense · Junior Enterprise

Aeris — AGIR Hackathon, 2nd place

Decision-support tool to coordinate gendarmerie drone deployments, recomputed in real time. Lead architect and integrator in a team of six.

TypeScript · React · WebSocket · Optimization · Teamwork

INVOLVEMENT

Scout Troop Leader 12+ YEARS OF SCOUTING
Mentoring young people, managing a team, a budget and logistics.

Choir Conductor & Musician TRUMPET · PIANO
High school choir; trumpet (3rd cycle at the conservatory).

CONTACT

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Eligible for security clearance

SKILLS

AI & Computer Vision

PyTorch · OpenCV · YOLO (v8 / v11) · Scikit-learn · Vision-Language Models (VLM)

Embedded AI & Edge AI

NPU (i.MX95, Pi AI) · ONNX / ONNX Runtime · INT8 · Graph surgery

Systems

Python · C++ · Embedded Linux (Yocto) · Git · Docker

Data & Scientific

NumPy · Pandas · Matplotlib · SQL

Electronics / Prototyping

Arduino · Matlab

LANGUAGES

French	Native
English	C1
German	B1