

Robin Lasserre

AI Engineer · CTO · freelance software engineer

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Independent engineer since 2022. Medtech technical leadership, Python and web development, business automation, agentic AI and real-time 3D. I turn business needs into practical tools: APIs, integrations, data pipelines and interfaces. Based in Croix, available for remote assignments.

PROFESSIONAL EXPERIENCE

Founder · AI and software engineering

May 2025 — present

Elytre (EURL) · Lille area, France

- AI architecture, automation and support for development teams.
- Development of internal prospecting, AI assistance and technical management tools.

Chief Technology Officer

Apr 2024 — Aug 2026

Aligneurs Français · Paris · remote

- Technical leadership of five or more developers in medtech.
- AI-assisted refactoring of a back end with over 400,000 lines: retroactive TDD and end-to-end tests.
- Logistics automation: shipping costs reduced by 38% across 1,432 shipments.
- Billing and support pipelines: six sources reconciled nightly in production.

Independent web and 3D engineer

Aug 2022 — Sep 2025

Independent practice · Lille area, France

- PureControl: orthodontic 3D viewer, treatment editing and technician/practitioner exchanges; React and Three.js/WebGL.
- Kenzo 3D browser game through Rec'im, November–December 2022.

Railway validation intern, IKOS Group

Feb 2022 — Aug 2022

React / Docker e-commerce intern, Instan'Web

May 2021 — Jul 2021

SKILLS

AI and APIs Python · FastAPI · LangGraph · MCP · Local LLMs · Model integration

Web and data Django · PostgreSQL · Redis · TypeScript · React.js · Next.js · Three.js · WebGL

Engineering and leadership Docker · Git · CI/CD · pytest · TDD · E2E tests · Software architecture · Technical management

EDUCATION AND QUALIFICATIONS

Engineering degree — Computer science, microelectronics and automation

2017–2022

Polytech Lille

Scientific Baccalaureate — Mathematics specialisation

2014–2017

Lycée Fénélon, Lille

Highest honours

LANGUAGES

Languages French (Native) · English (B2 - TOEIC 850 (2022)) · Spanish (A2)

BUSINESS DELIVERY · MEDTECH, DATA AND WEB

PureControl · orthodontic 3D viewer

Client delivery · used for nearly four years

Treatment viewing and editing: step-by-step tooth animation, translation/rotation, IPR, attachments and comparisons. Occlusal contacts, gum simulation and CBCT display; model streaming and scripts for mesh preparation and checks. ONYXCEPH setup exchanges between technicians and practitioners. A client-requested SaaS version was developed but not deployed.

React, TypeScript, Three.js, WebGL, Python, Django, glTF/STL

Orthodontic pipeline

Business development · experimental automatic generation

Python service accepting STL scans and a prescription, with dental segmentation, preparation and ONYXCEPH package export. APIs for starting jobs, tracking progress and retrieving results; mesh checks and quality reports. Export is technically integrated; clinical validation of automatic treatment generation is not established.

Python, FastAPI, PyTorch, NumPy/SciPy, trimesh, CLI

Medtech back-end modernisation

Client delivery · CTO role, 2024–2026

AI-assisted refactoring of a back end exceeding 400,000 lines, using retroactive TDD and end-to-end tests. Architecture and change management within the team.

Python, Django, PostgreSQL, Redis, testing

Shipping automation through Slack

Client delivery · medtech

Consolidated orders by recipient, generated FedEx labels and delivered them in Slack. Shipping costs reduced by 38% across 1,432 shipments.

FedEx API, Slack, integrations and traceability

Billing and support pipelines

Client delivery · medtech

Nightly reconciliation of six heterogeneous sources in production to improve the reliability of operational reporting data.

Ingestion, reconciliation, business data

Metabase KPI dashboards

Client delivery · business reporting

Designed dashboards and produced company KPIs for over three years: finance, production, operations and reporting by sales representative. HubSpot bots feed the data, with centralisation and presentation in Metabase.

Metabase, HubSpot, KPIs, dashboards

Business questions in natural language

Documented client delivery · Slack

Question-answering command connecting Claude to business data through Slack. Business information made available in the teams' communication tool.

Claude, Slack, LLM integration

Kenzo browser game

Client delivery through Rec'im · November–December 2022

Developed a 3D game accessible in the browser. Cross-cutting skills in real-time rendering, interaction and web development.

JavaScript, Three.js, WebGL

Dental laboratory management application

Business prototype · medtech environment

Full-stack application covering orders, practices, supplies and reporting. Integration adapters are implemented; some external services remain simulated.

Django REST Framework, React, Vite, Docker

PERSONAL PROJECTS · AI, DATA, WEB AND TOOLS

Majordome, opportunity collector and command centre

Personal tools · internal use

Multi-source collection, opportunity screening and deduplication, public-contact research and draft preparation with human review. Collector: 13 sources and over 8,000 cumulative listings. Session orchestration and recovery through tmux/systemd.

Python, JavaScript, MCP, Linux automation

Email assistant and offline evaluation

Personal project · September 2026

LangGraph workflow, FastAPI human-review interface and evaluation of categories, urgency and abstention. 29 measurement tests rechecked on 14 September; extension using a held-out fictional dataset and a deterministic baseline.

Python, FastAPI, LangGraph, pytest

SuperWhisper Custom and Ctrl+C+C Translator

Personal applications · local inference

Whisper dictation with SQLite history and human corrections; selected-text translation through Ollama in a floating Linux interface. Interfaces built around existing models running locally.

Python, Whisper, Ollama, SQLite, PyQt6, Wayland

Team Pulse and Slack archiving

Personal tools for technical management

GitHub/Slack collection, daily summaries and domain-specific agent-assisted audits. JSONL Slack archiving, recovery after interruption and Markdown output.

Python, GitHub/Slack APIs, orchestration, testing

Read-only WhatsApp connector

Personal integration · third-party protocol

Baileys bridge to SQLite and an MCP query interface. Separate connected and read-access processes, with access-boundary tests.

TypeScript, MCP, SQLite, Baileys

Data and cloud labs

Training projects · GCP / Talend

Java API with hexagonal architecture and a Vue interface, GCS storage adapter and CI configuration. Talaxie/Talend sales consolidation exercise, with joins and rejected-record handling.

Java 21, Spring Boot, Vue 3, GCS, JUnit, Talaxie

Linux multimedia tools

Personal applications and integrations

Tools accessible through Dolphin's right-click Actions menu: image rotation, mirroring and cropping with preview; ×2/×3/×4 upscaling; video enhancement, interpolation and encoding. PyQt6 interfaces integrate Real-ESRGAN, RIFE and FFmpeg; a PipeWire audio dashboard exposes APIs and WebSocket updates.

Python, PyQt6, Pillow, Real-ESRGAN, RIFE, FFmpeg, FastAPI