

Guillaume LEMEUNIER

Engineering Manager - Real-Time Digital Twins & Industrial AI

Contact

Contact me via
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Social
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Education

2008 / Institut Image
Specialized Masters
Digital Project Manag.
Simulation
Virtual Reality

2006-2007 / ENSAM
Research Master
Computer Science

2003-2007 / ENSAM
Engineering Degree
Industrial Engineering

Additional

Languages

French (native)
English (fluent)
Spanish (fluent)

Maker

CNC, CAD and CAM
3D printing
Industrial Design

Availability

Open to Paris
(hybrid / on-site)

Summary

Almost 20 years in tech prepared me for digital twins and industrial AI. At JENII I led product and engineering of an industrial Digital Twin with live cutting-force physics-in-the-loop; earlier, 8 years as co-founder/CTO shipping 3D/AR for industry (one suite drove ~€5M ROI). Not a physics researcher: the hands-on, low-ego leader who grows the team, sets technical direction, and translates the work to industrial customers.

Skills

Leadership: Team building and scaling (0→8), high-performing teams, servant-leader style, mentoring and coaching to autonomy, hands-on technical leadership, product ownership, roadmap and estimation, cross-functional delivery

Digital Twin & Industrial: Real-time digital twins, physics-in-the-loop integration, IIoT (OPC-UA, MQTT, InfluxDB), Siemens SINUMERIK / NC, edge (Raspberry Pi), predictive-maintenance context

Stack: TypeScript / JavaScript, Node.js, React, WebGL / Three.js, Unreal Engine 5, REST APIs, SDK and back-office / CMS platforms (PHP/Symfony, Rails)

3D & Spatial: Photogrammetry (15 yrs), terrestrial LIDAR, hybrid point cloud (RealityCapture, Agisoft), real-time rendering, AR / VR, GIS (MapBox, QGIS)

AI: Agentic coding (Claude Code, Cursor), hands-on exploration of local / open-weight LLMs (LM Studio, Qwen, Devstral), sustainability-driven

Methods: Agile, ADRs, documentation, technical arbitration, knowledge sharing

Experience

2022-2025 - PRODUCT OWNER & LEAD DEVELOPER - JENII - Real-Time Industrial Digital Twin (national R&D program)

- Architected a greenfield real-time Digital Twin of a multi-axis CNC machine, mirroring live motion over OPC-UA at ~300 ms latency (500 Hz).
- Integrated physics-in-the-loop: live cutting-force sims projected onto the machine; I owned the integration interface for a partner's FEM model.
- Authored the end-to-end data/integration API behind the twin, a Grafana observability layer, and a WebGL configurator exporting reusable machine configs.
- Recruited and coached two junior developers to autonomous ownership through code review and technical arbitration under deadline.
- Owned discovery, roadmap and delivery solo across four apps in a national R&D program; twin shown twice at Global Industrie.

2012-2020 - CO-FOUNDER, CEO & CTO - Paztec - 3D / AR Software for Industry, Construction & Heritage

- Co-founded and led Paztec 8 years as CEO/CTO; scaled a high-performing team 0→8, owning mobile, web and 3D/AR across 20+ national deployments.
- Led the build of an industrial AR suite (~200 products) for one abrasive manufacturer; client credited a ~€5M contract win versus a CAC40 incumbent.
- Built a decade-long photogrammetry and terrestrial-LIDAR pipeline (Faro, Trimble; RealityCapture, Agisoft), digitizing Cluniac heritage sites across Europe.
- Shipped a smart-building twin for Vienne: a live 3D model linking each equipment item to its docs and maintenance history.

2025-2026 - HEAD OF ENGINEERING, CONNECTIVITY - Backyou - Hospitality SaaS

- Managed a 4-engineer Connectivity team, introducing 1:1s and clear ownership while directing PMS, OTA and channel-manager integration architecture.
- Drove architecture and prioritization for the PMS-integration API team at a Series B SaaS, leading the team rather than writing the code.