# Timothée Darmaillacq

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## Summary

Final-year engineering student at ESILV, pursuing an MSc in Creative Technologies and a dual degree in Management. Seeking an internship in prototyping and innovation.

Experience in digital fabrication, electronics, machine learning & generative AI, and biomaterials. Passionate about innovation and creating interactive hardware-software experiences.

## Education

**Master of Science in Creative Technology** at Institute for Future Technologies (IFT)    **2024 - 2026**

Developing innovative, transdisciplinary projects combining technology and creativity

*Research, software development, CAD, electronics, prototyping, AI & ML, interactive experiences*

**ESILV Graduate School of Engineering**, Paris | General Engineering Curriculum    **2021 - 2026**

*Mathematics, Physics, Problem Solving, Software Development*

**EMLV School of Management |** Dual-degree in Management    **2021 - 2026**

*Business Strategy, Marketing Strategy, Intercultural Management, Negotiation*

**University of Vic, Catalonia, Spain |** Semester Abroad in Engineering, 6 months    **2023**

*Computer vision, data science, physical modeling, spanish*

## Experience

**IT Systems Technology Developer Intern |** BPCE Solutions Informatiques    **Apr 2025 - Aug 2025**

- Developed PoCs with generative AI and low-code/no-code tools (N8N, Appsmith, Coder).
- Built reproducible testing environments using Docker and Podman.
- Implemented RAG workflows, MCP protocol explorations, and advanced graph-based visualizations.
- Documented experimental approaches and supported team adoption of new tools.

**AI Developer Medical Imaging Project |** CHU Bordeaux    **Jul 2024 - Oct 2024**

- Developed Python-based AI to detect mitral valve pathologies in echocardiography exams.
- Processed DICOM medical imaging data (Orthanc) and built a prototype viewer/classification tool
- Managed large datasets via REST APIs for AI model training and testing.

**Back-End Developer Assistant |** Groupe Cybertek    **Jul 2023 - Aug 2023**

- Developed and tested APIs in C# (.NET) for the production e-commerce website.
- Built PowerShell-based data visualization tool and assisted management with complex SQL queries.

## Academic Projects

**Location-Based Archival Camera** : Building a prototype that lets users explore places through historical images linked to their location. *Hardware-software integration, interactive experience*

**Biomaterials Exploration** : Experimenting with mycelium composites to enhance material affordances for sustainable design applications. *Material prototyping, creative experimentation, research methodologies*

**Connected Climbing Wall** : Designed and built a 3×3 m self-supporting climbing wall for the university hub, supported by Crous de Versailles. *Mechanics, raspberry Pi, collaboration*

**Surfboard Shape** - La Vague de Vinci : Designed and fabricated a surfboard for the student association. *3D visualization, polymers, partnership research*

## Skills

**Prototyping & Engineering** : Electronics, Arduino, CAD (Onshape), Digital Fabrication, Mechanics

**Programming** : Python, C#, C++, REST APIs, Docker, ML, Gen. AI

**Tools** : Notion,, Podman, Microsoft Office, Low-code/no-code (N8N)

**Languages** : English: Professional (TOEFL B2), Spanish: Fluent (DELE B2)

## Engagement

**Notion Campus Leader**    **Sept 2024 - Present**

Helped students, association and lead initiatives to share Notion knowledge and enhance campus collaboration.

**La Vague Devinci Surf Student Association**    **Sept 2022 - Aug 2025**

Managed finances, developed partnerships, and contributed to organizational growth over 3 years.