

Daniel Madac

Prototyping and FabLab

I build products that work: iOS & Mac apps, hardware prototypes, AI automation.

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18 months running a photonics FabLab at Institut d'Optique: 3D printing, laser, CNC and prototypes for students, researchers and start-ups, plus the software that goes with them.

EXPERIENCE

FabLab Manager, Photonic FabLab

Jan 2025 - Jun 2026

503 · Institut d'Optique Graduate School, Palaiseau (Paris-Saclay)

CDI de projet-missions; joined Sept 2024 on a short contract

- Ran the lab and its machines: Bambu Lab 3D printers (PLA, PLA-CF, PETG HF, TPU, PAHT-CF), Trotec laser, wood and aluminium CNC, photo studio.
- Coached 2 cohorts of engineering students (FIE) and 10 hosted start-ups from idea to working prototype.
- Designed and made prototypes in Fusion 360: eyewear parts, laser-cut boards, aluminium panels, fire-retardant museum models (PETG + carbon fibre).
- Wrote the lab documentation and safety rules, managed stock and consumables, built the lab database in Notion.
- Ran workshops, trainings and events to bring the FabLab into the 503's courses and start-up programmes.
- Built free tools for the lab and published them as open source (fablab-tools on GitHub).

The contract was tied to the 503 innovation project and ended in June 2026 when the university stopped funding it.

Founder, digital studio: media, websites, AI automation · D-CREATIONS, Montpellier / remote

Aug 2025 - today

- Started in 2025 with photo and video production near Paris; now helps small businesses get found, save time with AI automation and earn good reviews.
- Shipped CineBuddy to the French App Store (Swift, Supabase); built Bouclier, an ad blocker for Safari, Chrome, Firefox and Android.

Operator, RU 1000 track renewal train · Swietelsky, Schwechat (Vienna) and sites across Austria

2019 - 2020

- Worked in several positions on the rail processing line of the RU 1000 train; team of 30 across 7 technical roles; machines up to 5 tonnes; safety first.

Other experience: Restaurant extra, Hotel Mercure Massy (2024) · Waiter, then manager, La Dolce Vita

(Apr 2016 - Aug 2023) · Freelance web designer and IT, Independent / Recycledwelt (2018 - 2025) · Short-let host, My parents' apartment (2017 - today) · Waiter at Admiral, Knittelfeld (2014-2015) and Mrast, Zeltweg (2015-2016), logistics in Birmingham (2014), renovation in Rome

COLLABORATIONS

DFL Eyewear (Dec 2025): 3D-printed eyewear workshop tools · KABLAX (Nov-Dec 2025): 3 rounds of product prototypes · MIHALY (Dec 2025): CNC-cut and laser-engraved board · IUMTEK (Nov 2025): 900 × 630 mm Dibond front panel

PROJECTS

Prototypes from the FabLab · Case study

Fire-retardant museum models in PETG and carbon fibre, eyewear parts, laser-cut boards and aluminium panels for start-ups and makers. Fusion 360, Bambu Lab, Trotec, CNC

Software: CineBuddy (Live on the App Store (France)) · Bouclier (Website live · App Store in review) · Phoenix Display (Mac app · App Store in review) · YouTube Zeus (Open source (MIT)) · DotWorld (Live on the web) · VeloTrack (Open source · Google Play testing) · My AI team (Case study) · AI engineering toolkit (12 skills open source)

SKILLS

Prototyping: Fusion 360 (CAD/CAM), Bambu Lab 3D printing, Trotec laser, CNC wood & aluminium, Arduino, Raspberry Pi

Photo & video: Nikon Z6 III, DaVinci Resolve, Final Cut, Lightroom, Capture One, Colour grading (Log)

Software: Swift / SwiftUI, Xcode, TestFlight, App Store Connect, Kotlin / Android, Python, JavaScript, TypeScript, React, Astro, Tailwind, Supabase, Git, GitHub Actions

AI: Claude Code (skills, plugins, hooks, MCP), Codex CLI, Gemini / Antigravity, Multi-agent workflows with review steps, Local models (Qwen, Gemma, Whisper)

Operations: Team of 10, Purchasing & stock, Pricing & planning, Customer service in several languages, Notion

LANGUAGES

Italian – native · Romanian – native · English – C1 · German – B2 · French – B1 (DELF in preparation) · Spanish – A2

EDUCATION

ITI G. Lattanzio, Rome: computing and telecommunications, 3 of 5 years completed (no diploma)

2010 - 2013

Self-taught: Coursera, LinkedIn Learning (certificate: Generative AI for communication, Dec 2025), documentation and practice

2015 - today