

Guilhem Rozier Vilardell

BSc in Microengineering — Electronics Specialization
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PROFILE

Microengineering student specializing in electronics, with strong hands-on experience in manufacturing, automation, and prototyping.

Seeking an industrial or R&D internship to contribute practical engineering skills, autonomy, and systems-level problem solving.

EDUCATION

HEPIA — University of Applied Sciences, Geneva
BSc in Microengineering (Electronics specialization)

2024–Present
Grade: 5.3 / 6

CPNV, Yverdon
Preparatory Year in Engineering

2023–2024
Grade: 5.2 / 6

EXPERIENCE

Haleon, Nyon
Cleaning Agent — GMP Risk Zone

2023–2025

- Worked in GMP-controlled pharmaceutical production environments under strict hygiene, traceability, and safety constraints
- Developed strong discipline in regulated industrial environments and standard operating procedures

GS3Dfactory, Nyon
Co-Founder & Managing Partner

2020–2022

- Led prototyping and small-scale production of a medical device, from mechanical design to manufactured prototype
- Coordinated testing, iteration cycles, and supplier interactions under real production constraints

Hublot, Nyon
Technical Internship

April 2017

- Exposure to high-precision component assembly, quality control, and industrial manufacturing processes

PERSONAL PROJECTS

Voron CoreXY 3D Printer
High-performance custom 3D printer

2024–2025

- Designed, built, and tuned a CoreXY printer (Linux, Raspberry Pi, GitHub, Klipper firmware)
- Achieved a **60% reduction in print time** while improving reliability and material compatibility

Jar Labelling Machine
Automated labelling system for small production series

2024

- Designed mechanical structure, electronics, and PLC logic (Siemens TIA Portal)
- Increased throughput by **180%** with **99% operational reliability** across multiple jar formats

FPV Drone Build
Custom FPV cinematic drone

2021

- Component selection, precision soldering, firmware configuration (Betaflight), and failure diagnosis

TECHNICAL SKILLS

Languages: French (native), Catalan (native), English (C1), German (B2), Spanish (B1)

Mechanical & Manufacturing: SolidWorks, Fusion 360, Inventor; 3D printing, laser cutting, machining

Electronics & Embedded: PCB design (KiCad, Altium), ESP32, Arduino, Raspberry Pi, sensors, QSpice

Automation & Control: Siemens PLCs (TIA Portal), industrial I/O, HMI concepts

Programming: Python, C/C++, MATLAB

Workflow: Full product development cycle — design, prototyping, manufacturing, testing