

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 <i>BSc in Microengineering (Electronics specialization)</i>	<i>2024–Present</i> Grade: 5.3 / 6
CPNV, Yverdon <i>Preparatory Year in Engineering</i>	<i>2023–2024</i> Grade: 5.2 / 6

EXPERIENCE

Haleon, Nyon <i>Cleaning Agent — GMP Risk Zone</i>	<i>2023–2025</i>
<ul style="list-style-type: none">Worked in GMP-controlled pharmaceutical production environments under strict hygiene, traceability, and safety constraintsDeveloped strong discipline in regulated industrial environments and standard operating procedures	
GS3Dfactory, Nyon <i>Co-Founder & Managing Partner</i>	<i>2020–2022</i>
<ul style="list-style-type: none">Led prototyping and small-scale production of a medical device, from mechanical design to manufactured prototypeCoordinated testing, iteration cycles, and supplier interactions under real production constraints	
Hublot, Nyon <i>Technical Internship</i>	<i>April 2017</i>
<ul style="list-style-type: none">Exposure to high-precision component assembly, quality control, and industrial manufacturing processes	

PERSONAL PROJECTS

Voron CoreXY 3D Printer <i>High-performance custom 3D printer</i>	<i>2024–2025</i>
<ul style="list-style-type: none">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 <i>Automated labelling system for small production series</i>	<i>2024</i>
<ul style="list-style-type: none">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 <i>Custom FPV cinematic drone</i>	<i>2021</i>
<ul style="list-style-type: none">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