

Lionel Elias Gretler

Curriculum Vitae



PERSONAL DETAILS

Birth	04.12.2002
Nationality	Swiss
Address	Bodenacherstrasse 33, 8121 Benglen
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EDUCATION

ETH Zurich 09.2022–12.2025
BSc. Mechanical and process engineering

Kantonsschule MNG Rämibühl 08.2017–07.2021
Swiss Matura with focus Physics & Math

WORK EXPERIENCE

ETH Zurich 09.2025–12.2025
Teaching Assistant
Teaching fundamentals of Electrical Engineering
to a class of 30 2nd year Mechanical Engineers

Everllence (formerly: MAN Energy Solutions) 06.2024–09.2024
Working Student
Division Drive System & Valves

tempStaff AG 01.2022–now
Bartending & waiting

Bar Andorra 05.2022–07.2022
Bartending & waiting

Self-Employed 08.2020–now
Tutor
Electrical Engineering, Programming, Calculus,
Thermodynamics & Mechanics for STEM majors

Military Service 07.2021–11.2021
Paramedic

PRACTICAL EXPERIENCE

PROJECTS

Bachelor's Thesis

09.2025–12.2025

Design and Construction of a Fluidized bed reactor

- Designed, constructed and experimentally characterized a lab-scale fluidized bed reactor
- Project conducted as part of a research initiative on hydrogen production from concentrated solar energy

Innovation project

09.2023–12.2023

Autonomous Waste Disposal Vehicle

- Designed and developed an autonomous system for waste collection, sorting and disposal in a semester-long group project
- Gained hands-on experience in product design, manufacturing, and optimization

Blockchain Paper

08.2020–01.2021

Final high school thesis

- Researched and wrote an academic paper on the principles and mathematical foundations of blockchain technology

SKILLS

Languages German (*native speaker*)
 English (*C1*)
 French (*B2*)
 Portuguese (*native speaker*)

Programming C++, Python, Processing
 CSS, HTML

Software Excel, MATLAB, L^AT_EX

Hardware ARDUINO, RASPBERRY PI

RECREATIONAL ACTIVITIES

Sports Breakdance, Swimming
Hobbies Programming, Building RC-Cars, Playing Piano