

# Lionel Elias Gretler

*Curriculum Vitae*



## PERSONAL DETAILS

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**Birth** 04.12.2002  
**Nationality** Swiss  
**Address** Bodenacherstrasse 33, 8121 Benglen  
**Phone** +41 77 507 35 99  
**Mail** lionel@eliasgretler.ch  
**Linked In** lionel-elias-gretler-9981bb251

## EDUCATION

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**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

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**ETH Zurich** 09.2025–12.2025  
*Teaching Assistant* & 09.2024–12.2024  
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*

## PRACTICAL EXPERIENCE

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

**Military Service** 07.2021–11.2021  
*Paramedic*

## PROJECTS

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### 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

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<i>Languages</i>	German ( <i>native speaker</i> )
	English ( <i>C1</i> )
	French ( <i>B2</i> )
	Portuguese ( <i>native speaker</i> )
<i>Programming</i>	C++, Python, Processing
	CSS, HTML
<i>Software</i>	Excel, MATLAB, L <sup>A</sup> T <sub>E</sub> X
<i>Hardware</i>	ARDUINO, RASPBERRY PI

## RECREATIONAL ACTIVITIES

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<i>Sports</i>	Breakdance, Swimming
<i>Hobbies</i>	Programming, Building RC-Cars, Playing Piano