

# Samuel Derwort

✉ samuel@derwort.ch



## SKILLS

- Python
- PowerShell
- MS Office 365
- MATLAB
- QGIS
- Catia V5
- ABAQUS
- LabView
- Version control: Git, SVN
- OS: Windows/Linux
- Visual Basic
- C++
- JavaScript
- HTML
- CSS
- React

## LANGUAGES

**German** | Native Language

**English** | Fluent, C1

**French** | Fluent, C1  
DALF Certificate

**Spanish** | Good knowledge, B2

**Portuguese** | Basic knowledge, A1

## INTERESTS

Surfing, foreign cultures and languages

## EXPERIENCE

### Career Break

NOVEMBER 2023 – JULY 2024

- Improved my Spanish in language stays in Argentina, Chile, and Spain

### Technical Consultant, derwort-consulting AG, Degersheim

JULY 2021 – OCTOBER 2023

- Developed cloud-based solutions for managing manuals and documentation implemented in nearly 100 client institutions
- Automated and streamlined migration tasks using Python and PowerShell, resulting in a 12-fold process acceleration
- Trained end-users and supported customers in 10 Institutions
- Developed a Power Automate-based tool for managing continuous process improvement (7 customer implementations)

### Research Assistant, Eawag, Dübendorf

MAY 2021

- Elaborated code documentation using Sphinx following Master Thesis to make the developed model available for further research

### Internship R&D liquid flow sensors, Sensirion, Stäfa

SEPTEMBER 2019 – FEBRUARY 2020

- Developed scripts for collecting and visualizing sensor data using Python
- Performed stress tests on sensors and control measurements
- Investigated a new energy-saving measurement method for liquid flow sensors

## EDUCATION

### MSc in Mechanical Engineering, ETHZ, Zürich

SEPTEMBER 2018 – APRIL 2021

#### Master Thesis | Federal Institute of Aquatic Science - Eawag

- Developed an agent-based model to assess political and organizational factors of technology adaptation by stakeholders in the wastewater sector

#### Semester Project | Laboratory for Energy Conversion

- Developed simulation scenarios including 8 million agents to assess the future demand of Electric Vehicle charging stations using Python

### BSc in Mechanical Engineering, EPFL, Lausanne

SEPTEMBER 2015 – AUGUST 2018

- Exchange year at Instituto Superior Técnico, Lisbon