Samuel Derwort

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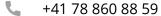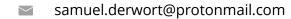
Kirchstrasse 18, 9113 Degersheim

03.01.1996

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 – JUNE 2024

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

Technical Consultant, derwort-consulting AG, Bern

JULY 2021 – OKTOBER 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