



# Michael Schmid

Data Scientist



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## About me

- Skitouring
- Trail Running
- Road Cycling

## Skills

Python



Linux, Bash



C, C++



LaTeX, TikZ



Git, Docker



JavaScript



The skill scale is from 0 (Fundamental Awareness) to 5 (Expert).

## experience

- Since 2023 Data Scientist (full-time) OST, ICAI Interdisciplinary Center for Artificial Intelligence  
Field of work
- Cooperation on various industrial and internal projects
    - Anomaly detection for drinking water utilities
    - Cloud services and web dashboards for live sensor monitoring
    - Signal processing and data acquisition for IoT sensors
    - Multi-person human pose estimation on edge devices
  - Teaching
    - Digital Signal Processing lab
    - Coaching of Bachelor theses
    - Introductory AI lectures
    - Development of AI courses for teenagers
- Fall 2022 Scientific Affiliate Electrical Engineering University of Rhode Island, USA  
Research for master thesis
- Hardware accelerated post quantum cryptography
- 2020-2022 Electrical Engineer (part-time) OST, Institute for Microelectronics and Embedded Systems  
Field of work
- Teaching assistant
    - Digital Electronics
    - Digital Design
  - Cooperation on various projects
    - Hardware accelerated deep learning (VHDL and HLS)
- 2012-2016 Apprenticeship as Physics lab technician HUBER+SUHNER AG, Pfäffikon ZH

## education

- 2020-2023 Master of Science in Electrical Engineering OST - Ostschweizer Fachhochschule  
Specialization:
- Computer Vision
  - Deep Learning
  - Embedded Software Engineering
- Projects:
- Hardware Accelerated Human Pose Estimation
  - Concurrent Deep Learning Inference on CortexM55 and Ethos-U55
  - Hardware Accelerated Post Quantum Cryptography
- 2017-2020 Bachelor of Science FHO Hochschule für Technik Rapperswil  
Electrical Engineering  
Specialization:
- Digital Image/Signal Processing
  - Machine/Deep Learning
  - Digital Microelectronics
  - Embedded Software Engineering
- Projects:
- Automotive power measurement with signal processing and machine learning
  - Time-to-Digital Converter implemented on an FPGA

## languages

German  
Native language

English  
Advanced Level C1  
Certificate: Cambridge Certificate in Advanced English, Grade C