

Curriculum Vitæ – Klemens Iten

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More about me: klemensiten.ch ◊ n.ethz.ch/~kiten ◊ [LinkedIn](#)

EDUCATION

Swiss Federal Institute of Technology, ETH Zürich

September 2022 – Present

Master of Science in Robotics, Systems and Control

- Focus on Advanced Control Methods (Optimal Control, Model Predictive Control) as well as Machine Learning and Artificial Intelligence in Robotics
- Exchange quarter at Northwestern University, Chicago (March 2023 – June 2023)

Swiss Federal Institute of Technology, ETH Zürich

September 2018 – August 2022

Bachelor of Science in Mechanical Engineering

Weighted average: 5.67/6 (Class rank: Top 1.5%)

- Undergraduate studies with focus on Mechatronics and Robotics
- Focus project: *Dyana, a Dynamic Quadrupedal Animatronic Robot*
- Bachelor's thesis:
Design and Integration of an Animatronic Neck and Tail based on Cable-Driven Continuum Joints

Kantonsschule Zug

August 2011 – June 2017

Matura, Physics and Applied Mathematics

Average: 5.78/6 (Class rank: #2/209)

PROFESSIONAL EXPERIENCE

Robotic Systems Lab (RSL), ETH Zürich

June 2021 – Present

Research Assistant

Zürich ZH

- Part-time research activity in various projects at RSL, mainly focused on prototyping, benchmarking and testing of robotic actuators using C++, ROS and CAN-communication (January 2022 – present)
- Student coach for the focus project *SpaceHopper* at the Robotic Systems Lab of Prof. Dr. Marco Hutter, coaching a team of 10 bachelor students in a robotics project in mechanical engineering design aspects, project management and sponsor acquisition (June 2021 – July 2022)

Department of Mechanical Engineering (D-MAVT), ETH Zürich

September 2019 – July 2022

Teaching Assistant

Zürich ZH

- Teaching assistant for the courses *Engineering Materials and Production I/II* (Werkstoffe und Fertigung I/II) of Prof. Dr.-Ing. Dr. h.c. Konrad Wegener (September 2019 – July 2022) and for *Control Systems II* (*Regelungstechnik II*) of Prof. Dr. Lino Guzzella (December 2020 – June 2021)
- Held lessons for first-to-second-year engineering students (attendance of up to 250 students), aided in correcting exams and supervising office hours

Balti AG

January 2019 – February 2019

Ardo medical AG

August 2017 – July 2018

Zugerische Werkstätte für Behinderungen (Stiftung zuwebe)

July 2015 – October 2015

Various Internships

- At Balti: Learned of basic machining techniques and skills in the workshop, working in production, maintenance, and warehouse departments
- At Ardo: Provided IT Support for ERP-software switch from NAV 2007 to Microsoft Dynamics, and created instruction materials and documentation in new software for coworkers and management
- At zuwebe: Took care of physically and mentally severely disabled people in the residential group

OTHER EXPERIENCE

Canton of Zug (Kanton Zug)

September 2017 – Present

Member of the Cantonal Parliament

Zug ZG

- Elected to the cantonal parliament ([Kantonsrat](#)) as a representative for my home constituency of Unterägeri and [Member of Parliament](#) since October 2022 (roughly corresponds to workload of 10%)
- Co-President of the [Young Green Liberal Party](#) Canton Zug (May 2019 – October 2021)
- Member of the board of the [Green Liberal Party](#) Canton Zug (May 2019 – September 2021)
- Numerous other political functions since September 2017

Academic Mechanical Engineering Association (AMIV) at ETH

February 2021 – Present

Vice President

Zürich ZH

- Member of the Board and vice president of [AMIV](#), the largest and most active student association at ETH (>4'400 members, February 2021 – March 2022)
- Member of the Student Association Council (Fachvereinsrat) and the Member Council (Mitgliederrat) of the ETH Student Association ([VSETH](#), February 2021 – present)
- President of the organisation committee for the engineering students' job fair at ETH Zürich ([AMIV Kontaktmesse](#), September 2021 – December 2022)

Swiss Armed Forces

January 2018 – Present

Nuclear Laboratory Specialist Soldier

Labor Spiez BE, Kaserne Thun BE

- Basic military training in Spiez and Thun (January 2018 – May 2018)
- Military service as a laboratory soldier in the [Radiochemistry Group](#) of the Nuclear Chemistry Division at the [Spiez Laboratory](#) (yearly three-week service in autumn, September 2019 – present)

QUALIFICATIONS

Programming and Scripting

Experienced:

Python (incl. PyTorch, TensorFlow, SKLearn etc.),
MATLAB, C++, \LaTeX

Some experience: HTML/CSS, XML, SQL

CAD and CAE

Experienced: Siemens NX (CAD/CAE)

Some experience: Autodesk/Solidworks (CAD)

Project Management and ERP

Git/Github, Docker, Microsoft Dynamics

OS and Middleware

Microsoft Windows, Linux (Ubuntu), ROS

Languages

German (*Native proficiency*),

English (*Near-native proficiency, Cambridge Advanced C2*),

French (*Limited professional proficiency, B2*)

Other Interests

Hiking, Skiing, Boulderling, Reading

AWARDS AND HONORS

Excellence Scholarship & Opportunity Award (ESOP)

September 2022

- [Awarded by the ETH Foundation](#) for my Master's studies in Robotics, Systems in Control in 2022
"based on excellent academic achievements so far and the quality of the pre-proposal for the Master's thesis"

Outstanding Teaching Assistant Award

March 2022

- [Awarded by the teaching commission \(UK\) of the Department of Mechanical and Process Engineering](#)
"for an extraordinary contribution to teaching in the course *Engineering Materials and Production* in the bachelor's degree program in mechanical engineering at the ETH Zurich"