Curriculum Vitæ – Klemens Iten

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Contact: +41 (0)79 836 98 95 ◇ kiten@ethz.ch – **Info:** born 1 April 1999 ◇ Swiss citizen
More about me: kiten.me ◇ klemensiten.ch ◇ LinkedIn ◇ Google Scholar

EDUCATION

ETH Zürich *September 2022 – Present*
MSc in Robotics, Systems and Control *Current weighted GPA: 5.7/6*

- Exchange semester at Northwestern University, USA (Spring 2023).
- Master's thesis (expected January 2026): *Continual Model-based Reinforcement Learning with Time-varying Dynamics* (at the Learning & Adaptive Systems (LAS) Group, supervised by Bhavy Sukhija, Chenhao Li, Prof. Dr. Andreas Krause).

ETH Zürich *September 2018 – August 2022*
Bachelor of Science in Mechanical Engineering *Weighted GPA: 5.67/6 (Class rank: Top 1.5%)*

- Focus on Mechatronics and Robotics.
- Bachelor's thesis: *Design and Integration of an Animatronic Neck and Tail based on Cable-Driven Continuum Joints* (co-supervised by Prof. Dr. Marco Hutter and the German Aerospace Center DLR).

Kantonsschule Zug *August 2011 – June 2017*
High-school diploma (Matura) with focus on physics and mathematics *GPA 5.78/6 (Class rank: #2/209)*

PUBLICATIONS AND PREPRINTS

- **Klemens Iten**, Lenart Treven, Bhavya Sukhija, Florian Dörfler and Andreas Krause. Sample-Efficient and Scalable Exploration in Continuous-Time RL. *arXiv preprint arXiv:2510.24482*, 2025.
- Hehui Zheng, Bhavya Sukhija, Chenhao Li, **Klemens Iten**, Andreas Krause and Robert K. Katzschmann. Learning Soft Robotic Dynamics with Active Exploration. *arXiv preprint arXiv 2510:27428*, 2025.
- **Klemens Iten** and Andreas Krause. Scalable and Efficient Exploration via Intrinsic Rewards in Continuous-time Dynamical Systems. *The Exploration in AI Today Workshop at the Int'l. Conf. on Machine Learning*, 2025.

TEACHING AND RESEARCH

Department of Computer Science (D-INFK), ETH Zürich *August 2025 – Present*
Department of Mechanical Engineering (D-MAVT), ETH Zürich *September 2019 – July 2022*
Teaching Assistant *Zürich, Switzerland*

- *Probabilistic Artificial Intelligence*, Prof. Dr. Andreas Krause (Fall 2025).
- *Engineering Materials and Production*, Prof. Dr.-Ing. Dr. h.c. Konrad Wegener (September 2019 – June 2022).
- *Control Systems II* (Regelungstechnik II), Prof. Dr. Lino Guzzella (Spring 2020).
- Exercise sessions (attendance of up to 250 students), exam correction, lecture slides, office hours.

ETH Zürich *June 2021 – February 2025*
Research Assistant *Zürich, Switzerland*

- Active exploration in continuous-time model-based RL settings at LAS group (August 2024 – February 2025).
- Part-time research activity in various projects at the Robotic Systems Lab (RSL), mainly focused on prototyping and testing of robotic actuators using C++, ROS and CAN bus (January 2022 – March 2023).
- Student coach for the *SpaceHopper* project at RSL (June 2021 – July 2022).

INDUSTRY EXPERIENCE

Axpo Power AG, *Baden, Switzerland.* Drones & Hydro Energy Engineering Intern. *July 2023 – January 2024*
Balti AG, *Baar, Switzerland.* Workshop Intern. *January 2019 – February 2019*
Ardo Medical AG, *Unterägeri, Switzerland.* IT Support Intern. *August 2017 – July 2018*

SELECTED PROJECTS

Semester Project *February 2024 – July 2024*
Optimistic Active Exploration of Continuous-time Dynamical Systems *ETH Zürich, LAS*
- Introduced an algorithm designed to perform efficient exploration in unknown continuous-time dynamical systems with theoretical guarantees regarding sublinear regret as well as experimental validation.
- Code release and workshop submission: GitHub, OpenReview, Poster.
- Supervised by Bhavya Sukhija, Lenart Treven, Prof. Andreas Krause.

Class Project *Spring 2024*
Text-based Mapping for Human-like Localization *ETH Zürich, RSL*
- Created a 3D map dataset with embedded textual data for testing and validation, and introduced an efficient localization pipeline by integrating text-based information.
- Resources: Video, Poster. Supervised by Dr. Andrei Cramariuc.

Focus Project *September 2021 – June 2022*
Dyana: A Dynamic Quadrupedal Animatronic Robot *ETH Zürich, RSL*
- Design of a four-legged robot from scratch, aiming to imitate the look and movements of a cat-like creature.
- Demo: Video. Supervised by Prof. Dr. Marco Hutter.

LEADERSHIP AND SERVICE

Canton of Zug (Kanton Zug) *October 2022 – Present*
Member of the Cantonal Parliament *Zug, Switzerland*
Serving as an elected Member of the Zug Cantonal Parliament (Kantonsrat) representing the constituency of Unterägeri since October 2022 (approx. 10% workload).

Academic Mechanical Engineering Association (AMIV) at ETH *February 2021 – August 2025*
Various functions *Zürich, Switzerland*
- Member of the Board and vice president of AMIV (February 2021 – March 2022).
- President of the engineering students' job fair at ETH Zürich (September 2021 – December 2022).
- Student representative in several ETH bodies (September 2021 – August 2025).

Swiss Armed Forces *January 2018 – Present*
Nuclear Laboratory Specialist Soldier *Labor Spiez, Switzerland*
Yearly military service as a lab technician in the Nuclear Chemistry Division at the Spiez Laboratory.

SKILLS

Programming: Python (JAX, PyTorch, TensorFlow, scikit-learn), C++, MATLAB, LaTeX
Tools: Git/GitHub, Linux (Ubuntu), ROS, Siemens NX CAD/CAE
Languages: German (native), English (C2, Cambridge Advanced), French (B2)
Other Interests: Hiking, Skiing, Bouldering, Reading

AWARDS AND HONORS

Dean's List, Achievement of High Honors *Spring 2023*
Awarded by the McCormick School of Engineering at Northwestern University.

Excellence Scholarship & Opportunity Award (ESOP) *September 2022*
Awarded by the ETH Foundation for my Master's studies in Robotics, Systems and Control.

Outstanding Teaching Assistant Award *March 2022*
Awarded by the Deptartment of Mechanical and Process Engineering at ETH Zürich.

References: *upon request*