

Name Luca Tognoni
E-mail tognoni@gmx.ch
Nationality Switzerland



Education

Sep 2023 - Aug 2025 Master in Robotics, Systems and Control, ETH Zürich

Sep 2020 - Aug 2023 Bachelor in Electrical Engineering and Information Technology, ETH Zürich (GPA: 5.36/6)

Jun 2019 - Oct 2019 Military Basic Training
Richtstrahlschule 62

Aug 2015 - Jun 2019 Gymnasium: Kantonsschule Zürich Nord
Profile: Mathematics and Natural Sciences

Experience

Feb 2024 - Juny 2024 Team Lead on the ForzaETH F1TENTH Team of ETH Zürich
Leading a team of students to compete at ICRA 2024 and working on the Autonomous Racing Software Stack

Sep 2023 - Present Teaching Assistant Autonomous Cars and Robots, ETH Zürich

Feb 2023 - July 2023 Control Engineer on the ForzaETH F1TENTH Team of ETH Zürich
Working on the Autonomous Racing Software Stack

Oct 2018 - Present Swimming Coach, Wassersport-Club Kloten
Head Coach since September 2022

Projects

May 2024 3rd Place at the ICRA 2024 F1TENTH Grand Prix

March 2024 Preprint of the ForzaETH Race Stack Paper:
Scaled Autonomous Head-to-Head Racing on Fully Commercial off-the-Shelf Hardware
· *Co-Author and Developer on the Publication and Open-Sourcing*

July 2023 Bachelor Thesis (Grade: 5.75/6):
· *Design and Implementation of a Trailing Controller for Autonomous Racing*
· *Awarded with Best Bachelor Thesis at the ETH Center for Project-Based Learning*
· *Skills Applied: PID, ROS, Git*

June 2023 1st Place at the ICRA 2023 F1TENTH Grand Prix

Skills

Technical Skills

Programming: C/C++, Python, Matlab, ROS, Git, Bash
Control: PID, MPC, Reinforcement Learning
Hardware: PCB Design, 3D Printing
Computer Vision: Feature Extraction, SLAM
Artificial Intelligence: Gaussian Process Regression, MLP

Languages

German	native
English	C2
French	B1
Italian	A2

References

References available upon request