



## Teammember Driverless

### About Zurich UAS Racing

Zurich UAS Racing (ZUR) is a student association with 70 members from over 15 study programs, united by the goal of competing in Formula Student – the world's largest engineering competition. Each year we design, build, and test an electric and autonomous race car to compete against top universities across Europe, offering students hands-on experience, project skills, and an international career network.

### Driverless

Our Driverless team develops the next generation of autonomous race cars, combining cutting-edge AI, robotics, and automotive engineering. We design, program, and test cars that can sense their environment, make decisions, and navigate tracks entirely on their own. Joining means gaining hands-on experience in autonomous systems, simulation, and real-world engineering while competing at an international level.

### Your Tasks

... in first 6 months

- Support in the development of software modules for our autonomous racing car
- Training in ROS2, sensor technology and software architecture
- Assistance with the implementation of basic functions (e.g. data processing, visualisation, testing)
- Collaboration in various sub-teams – this will allow you to learn about different areas and working methods

... afterwards

- Collaboration in a specialised sub-team
- Development and implementation of algorithms, interfaces or tools
- Assumption of responsibility for sub-projects or software modules
- Testing and validation in the simulator and on the vehicle

## Your Profile

- You are enrolled at ZHAW and are studying computer science, systems engineering or data science (from the 3rd semester onwards)
- You have prior knowledge or a strong interest in at least one of the above areas
- Experience with ROS2, Python, C++ or C is an advantage
- You are enthusiastic about topics such as robotics, AI, autonomous systems and motorsport
- You are reliable, proactive, a team player and eager to learn

## Benefits

- Apply Your Studies in Practice: Turn theory into reality with industry-standard tools and technologies: microcontrollers, ROS, CAN bus, computer vision, LiDAR, SLAM, and data analysis.,
- Collaborate & Lead: Work in a multidisciplinary environment alongside mechanical, electrical, and business engineers. Develop teamwork, project management, and leadership skills that mirror professional engineering projects.,
- Boost Your Career: Gain practical experience in robotics, AI, and automotive software highly valued by employers, while networking with sponsors and industry experts.,
- Enjoy the Journey: Experience the thrill of seeing your code and algorithms drive a car autonomously on track, join exciting team events, and make lasting friendships.

## Time commitment

The time commitment is approximately 6–10 hours per week, including weekly meetings. The amount of time required may vary depending on the phase (design, production, events). We know that you have to juggle your studies, free time and projects, but with this commitment you will be fully involved, learn a great deal and see how your work is directly reflected in the finished racing car.

## Apply now!

Send us an email with your CV and cover letter to [info@zurichuusracing.ch](mailto:info@zurichuusracing.ch)