

Autonomous Driving Robotics Internship

Zurich

Embotech is an award-winning software scale-up developing cutting edge autonomous driving technology and solutions for autonomous vehicles, with focus on private ground applications such as logistics yards, Autonomous Valet Parking (AVP) and mining. We are accelerating the transition towards safe autonomous transportation by leveraging the real-time optimization technology that we have been developing since 2012.

We are looking for a robotics intern who is passionate about getting real systems to work.

You will join the Safety & Systems Engineering (SSE) team to play an important role in developing full-stack autonomous driving systems for private grounds, using elements from Embotech's core autonomous driving tech and elements from external suppliers. Your role will involve designing, developing and testing perception and localization software and systems for safe autonomous vehicles for driving in the domain of automated logistics (i.e. automated trucks) and vehicle factories (automated passenger cars).

Responsibilities

- Develop well-tested and documented perception and controls software for autonomous driving on private grounds.
- Deploy and test software on test setup and our testing vehicles.
- Install and design hardware for test setups.
- Log data analysis and on-site problem solving.
- Log data management and analysis tools and infrastructure development
- Perform code reviews for other team members.
- Cooperate with systems engineers, software engineers and controls engineers to deliver a well-integrated full autonomous driving stack.
- Travel to customers or own testing areas as required.

Requirements

- Studies in robotics, electrical or mechanical engineering, cs or similar field.
- Experience with perception, localization or motion planning and control algorithms.
- Proficiency in C/C++ and Python or similar.
- Experience with one of the following is a plus:
 - Autonomous driving sensors (LiDAR, camera, radar) and calibration.
 - Data science/engineering
 - Real-life control applications.
 - CAN, Flexray, GMSL, etc
 - Mechanical and electrical design.
- Passionate about autonomous driving, self-driven, team player and a hands-on mentality.
- Fluency in spoken and written English.

We offer an exciting internship in a fast-growing company with attractive conditions and flexible hours. Embotech develops innovative products in a modern and dynamic environment, and you can expect an international atmosphere, with highly skilled colleagues with a passion for excellence and efficiency. We are looking for highly motivated people to help us solve one of the most complex challenges of today and take our company to the next level.

The duration of the position is limited to **6 months**

Our preferred starting time for this position is **January/February 2024**