

Systems Software 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 trucks at port terminals and passenger cars in factories. We are delivering safe autonomous transportation by leveraging the real-time optimization technology that we have been developing since 2012.

We are looking for an intern who is passionate about getting real complex systems to work.

You will join the Truck Systems team to play an important role in deploying a rapidly growing fleet of autonomous trucks for private grounds, using Embotech's autonomous driving software and hardware components from external suppliers. Your role will involve development, integration and testing of autonomous driving software.

Responsibilities

- Develop well-tested and documented software for autonomous driving on private grounds.
- Deploy our software and systems in our testing vehicles and Hardware-In-the-Loop testing setups at our own and customer's sites.
- Systems and software testing using simulation and integration of tests in CI.
- Log data analysis and on-site problem solving.
- Travel to customers or testing areas as required.

Requirements

- Studies in robotics, electrical or mechanical engineering, cs or similar field.
- Extracurricular experience with real-world software or system deployments.
- Proficiency in C++ or Rust and Python.
- Experience with at least 2 of the following:
 - Robotics algorithms.
 - Network communication protocols.
 - Mechanical and electrical design.
- Self-driven team player with 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 **September 2025**

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