Systems Integration Engineer

Zürich

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 2013.

We are looking for a systems integration engineer who is passionate about getting real systems to work reliably at scale.

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 both component development and full system design, integration and testing on test setups and on our vehicles.

We offer an exciting job 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

Responsibilities

- Hardware-software integration.
- Automated software deployment.
- Development of diagnostic software, drivers and hardware-close software.
- Define hardware requirements and manage external suppliers.
- Development of HIL and SIL testing methods and test automation.
- Contributing to system definition, configuration and verification through simulation and real-world testing
- Log data analysis and on-site problem solving.
- Cooperation with software engineers and controls engineers to deliver a well-integrated full autonomous driving stack.
- Travel to customers or own testing areas as required.

Preferred starting date for this position: ASAP

Requirements

- MSc in robotics, mechatronics, mechanical or electrical engineering or similar.
- Experience with real-world deployments.
- Proficient with C/C++ and Python.
- Experience with at least 3 of the following:
  - V&V.
  - Robotics algorithms and communication protocols.
  - Mechanical and electrical design.
  - Networking and Linux development.
  - Real time-processing.
- Self-driven team player with hands-on mentality.
- Fluency in spoken and written English.