Autonomous Driving Perception 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 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 an autonomous driving perception engineer who is passionate about getting real vehicles to drive safely autonomously.

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).

We offer an exciting job in a company in a key growth phase 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 safety, 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

- Design and development of safety perception algorithms for autonomous driving on private grounds.
- Development of algorithms for sensor data processing where needed to satisfy functional safety requirements.
- Documentation of own code and designs and writing code tests.
- Testing of perception stack in simulation and real-life test setups and test vehicles.
- Cooperate with systems engineers, software engineers and controls engineers to deliver a well-integrated full autonomous driving stack.
- Perform reviews of requirements, test specifications and code.
- Travel to customers or own testing areas as required.

Preferred starting date for this position: ASAP

We look forward to receiving your complete application documents (resume, cover letter and reference letters)by email: careers@embotech.com

Requirements

- MSc or BSc in robotics, mechanical or electrical engineering, CS or similar field.
- Demonstrated experience with autonomous driving sensors (lidar, radar, camera), and perception and localization 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.
    - ROS, Autoware, etc.
    - Autonomous vehicle safety standards.
- Exposure to other autonomous driving fields, in particular to: obstacle motion predictions, motion planning and mapping is a plus.
- Passionate about autonomous driving, self-driven, team player and a hands-on mentality.
- Fluency in spoken and written English.

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