embotech ✳

INTERN FOR NUMERICAL SOFTWARE ENGINEERING (based in Zürich, Switzerland)

Embotech is a software company 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 determined to accelerate the transition towards safe autonomous transportation by leveraging the core real-time optimization technology that we have been developing since 2012.

Our team is comprised of highly skilled employees 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 tomorrow and take our company to the next level.

As a software engineering intern, you will join a team of top technical talent dedicated to the development of FORCESPRO, our core software product for embedded optimization. You will be developing new algorithmic solutions that meet ambitious specifications in terms of computational performance and reliability. You will validate your developments in simulations and see them running in real applications. Excitement and learning opportunities are guaranteed in this position.

Responsibilities

- Develop maintainable, efficient and documented code according to best practices in software development
- Implement and perform unit tests and integration tests
- Improve usability of existing user interfaces for our embedded optimization software
- Assess different algorithmic options and implementation variants in terms of execution speed, memory usage and numerical reliability
- Coordinate development efforts with other members of the FORCESPRO development team in an agile manner

Requirements

- Pursuing a Master's degree in computer science, engineering, applied mathematics or similar
- Outstanding academic results during your studies so far
- Very good knowledge of Python and Matlab/Simulink
- Excellent communication skills in English
- Ability to adapt to rapidly changing tasks and requirements

As a PLUS, you have:
- Experience with tools for numerical optimization
- Familiarity with C/C++

Our preferred starting date for this position is ASAP with a duration of six months.

Internship based in Zürich (Switzerland).

We offer an exciting job in a fast-growing company with attractive conditions.

Contact:
embotech AG
Giessereistrasse 18
CH-8005, Zürich, Switzerland
+41 44 552 26 22
careers@embotech.com