

# Software Development for Industrial Automation Internship

## Zürich

Embotech is a software company developing cutting edge motion planning technology for various industries. We are determined to provide solutions for industrial automation that fully exploit the 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 development intern, you will join a small team of top technical talent and you will contribute towards various internal and external software development projects within the industrial automation segment. You will develop novel algorithmic solutions and software that meet ambitious specifications in terms of control performance, computational performance, and reliability. You will validate your developments in simulation and test on real applications. Excitement and learning opportunities are guaranteed in this position.

### Responsibilities

- Develop innovative algorithmic solutions to unsolved problems
- Write latency-optimized embedded code adhering to best practices
- Write automated testing tools to evaluate the behaviour of your algorithms and software
- Document your code and designs
- Coordinate development efforts with other team members

### Requirements

- Bachelor degree in computer science, engineering, applied mathematics, or robotics
- Knowledge of:
  - control theory
  - modelling and analysis of dynamical systems
- Experience in the application of mathematical optimization, e.g. Model Predictive Control is a plus
- Familiarity with various programming languages (e.g. C/C++, C#, Rust, Python, MATLAB)
- Excellent communication skills in English
- Ability to adapt to rapidly changing tasks and requirements

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 young and motivated colleagues.

The duration of the position is limited to **6 months**  
Our preferred starting time for this position is **January 2025**

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

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