

# INTERNSHIP FOR ADVANCED CONTROL ENGINEERING / MODEL PREDICTIVE CONTROL

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 control engineering intern, you will join a small team of top technical talent and you will contribute towards various internal and external software development projects. You will develop novel algorithmic solutions and software that meet ambitious specifications in terms of control performance, computational performance, and reliability. Model Predictive Control algorithms are applied as advanced control method. You will validate and benchmark your developments. Excitement and learning opportunities are guaranteed in this position.

## Responsibilities

- Develop solutions based on Model Predictive Control
- Write automated testing tools to evaluate and benchmark the behaviour of your algorithms and software
- Document your code and designs
- Coordinate development efforts with other team members

## Requirements

- Bachelor's degree in computer science, engineering, applied mathematics, or robotics
- Solid experience in applying Model Predictive Control
- Knowledge of control theory
- Knowledge of modelling and analysis of dynamical systems
- Experience in Matlab / Simulink
- Familiarity with C, C++, and Python is a plus
- Experience with code deployment on embedded systems, and real-time systems is a plus
- Excellent communication skills in English
- Ability to adapt to rapidly changing tasks and requirements

You will be directly reporting to the Head of Industry Automation. Our preferred starting time for this position is as soon as possible.

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

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