

# INTERNSHIP IN AUTOMOTIVE MOTION CONTROL

Embotech is a software company developing cutting edge motion planning technology for autonomous vehicles. We are determined to accelerate the transition towards safe autonomous cars 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 an intern for automotive motion control you will join a small team of top technical talent to develop safe, efficient and reliable trajectory generation algorithms for vehicle motion control. You will be working on one or more internal and customer projects.

Excitement is guaranteed in this position and the opportunities to shape the final product will be plentiful.

## Responsibilities

- Develop algorithmic solutions to unsolved problems
- Write automated testing tools to improve the behaviour of your algorithms and software
- Document your code and designs
- Interface to driving simulators
- Setup hardware-in-the-loop testing environments to validate performance against requirements
- Write latency-optimized safety-critical embedded C code adhering to best practices
- Coordinate development efforts with other members of the team

## Requirements

- Master's degree in computer science, electrical or mechanical engineering
- Understanding of control theory and dynamical systems. Previous experience with MPC implementation and vehicle dynamics required
- Excellent communication skills in English
- Ability to adapt to rapidly changing tasks and requirements
- Proficiency in C/C++, Python and Matlab/Simulink
- Familiarity with Linux and the GNU toolchain is a plus

You will be directly reporting to the project leader. Our preferred starting time for this position is March 2020.

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

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