

SOFTWARE DEVELOPMENT INTERNSHIP FOR ROBOTIC MOTION PLANNING

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. The projects you are working on range from motion planning of industrial robots to the control of production machines. Excitement and learning opportunities are guaranteed in this position.

Responsibilities

- Develop algorithmic solutions to unsolved problems
- Write latency-optimized safety-critical 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's degree in computer science, engineering, applied mathematics, or robotics
- Knowledge of control theory
- Knowledge of modelling and analysis of dynamical systems
- Familiarity with C/C++, C#, Python or Matlab/Simulink
- Experience in the application of mathematical optimization, e.g. Model Predictive Control 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 Spring 2021.

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

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