

INTERN FOR NUMERICAL OPTIMIZATION SOFTWARE DEVELOPMENT

Embotech is a software company developing cutting edge decision making and optimal control technology for various industries such as autonomous vehicles. 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 dedicated to the development of FORCES PRO, our core software product for embedded optimization. You will develop novel algorithmic solutions that meet ambitious specifications in terms of control performance, computational performance, and reliability. You will validate your developments in simulation and test them on 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, integrations tests as well as hardware-in-the-loop tests on various embedded development boards
- Assist with developing new algorithmic features for our state-of-the-art 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 software 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
- Very good knowledge of C/C++; familiarity with C#, Python or Matlab/Simulink is a plus
- Knowledge of numerical algorithms (such as linear algebra operations, solving differential equation or optimization) and how to implement them efficiently is a big plus
- Experience with embedded hardware platforms such as ARM processors is a big plus
- Excellent communication skills in English
- Ability to adapt to rapidly changing tasks and requirements and to think outside the box

You will be directly reporting to senior member of the FORCES development team. Our preferred starting date for this position is April 2020.

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

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