

OPTIMIZATION SOFTWARE EXPERT

Embotech is a software company developing cutting edge decision-making software for autonomous systems, for use in the automotive, aerospace and other industrial sectors. We are determined to drastically improve the decision-making abilities of autonomous systems for better efficiency, safety and productivity 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 a numerical optimization software expert, you will join a growing team of top technical talent to further develop our flagship product FORCES PRO. You will be responsible for core algorithmic method and software development and quality assurance. Excitement is guaranteed in this position and the opportunities to shape the final product will be plentiful.

Responsibilities

- Develop algorithmic and numerical solutions to challenging mathematical optimization problems
- Write latency-optimized safety-critical embedded C code adhering to best practices
- Exploit multi-core and vectorization capabilities of modern embedded platforms to deliver the world's fastest embedded solvers
- Write automated testing tools to improve the behaviour of your algorithms and software
- Document your code and designs
- Analyse and present the status of software development activities to the CTO on a weekly basis
- Coordinate development efforts with other members of the software team

Requirements

- PhD degree in computer science, applied mathematics, or electrical engineering in the field of numerical optimization
- 2-3 years of coding experience in an industrial setting
- Knowledge of numerical linear algebra
- Knowledge of parallel programming paradigms
- Understanding of control theory, dynamical systems or discretization methods is a plus
- Excellent communication skills in English
- Ability to adapt to rapidly changing tasks and requirements
- Proficiency in C/C++/C#, Python and Matlab/Simulink
- Familiarity with Linux and the GNU toolchain
- Experience in writing robust production code
- Knowledge of nonlinear programming methods
- Knowledge of embedded software development
- Familiarity with automotive coding standards (MISRA-C) is a plus
- Experience with Git & continuous integration tools

You will be directly reporting to the CTO.

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

Contact:

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