

OPTIMIZATION SOFTWARE ENGINEER/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 engineer or expert, you will join a growing team of top technical talent to further develop our flagship product FORCESPRO. You will be responsible for core algorithmic developments and quality assurance. Excitement is guaranteed in this position and the opportunities to shape the final product will be plentiful.

Responsibilities

- Develop state-of-the-art 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
- Extend our automated testing tools to improve the behaviour of your algorithms and software
- Document your code and designs
- Coordinate development efforts with other members of the FORCESPRO development team in an agile manner
- Directly interact with selected customers

Requirements

- Master's or PhD degree in computer science, engineering, applied mathematics or similar with outstanding academic results
- Extensive coding experience, including a significant amount within an industrial setting
- Very good knowledge of C/C++; familiarity with C#, Python or Matlab/Simulink is a big plus
- Thorough understanding of numerical algorithms for linear algebra or optimization and parallel programming paradigms is a big plus
- Experience with tools for automated testing and continuous integration is a big plus
- Experience with embedded hardware platforms such as ARM processors is a plus
- Familiarity with automotive coding standards (such as MISRA-C) is a plus
- Excellent communication skills in English
- Ability to adapt to rapidly changing tasks and requirements and to think outside the box

Preferred starting date for this position is February 2021.

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

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