

OPTIMIZATION ENGINEER – AUTOMOTIVE ENERGY MANAGEMENT

Embotech is a software company developing cutting edge optimization technology for vehicles and vehicles' fleets. We are determined to accelerate the transition towards efficient transportation by leveraging the core real-time optimization technology that we have been developing since 2012.

Embotech develops innovative products in a modern and dynamic environment, and you can expect an international atmosphere, with highly skilled colleagues with a passion for excellence and efficiency. We are looking for motivated engineers to help us solve one of the most complex challenges of tomorrow and take our company to the next level.

You will join a team of top technical talent dedicated to the development of various vehicle- and fleet-level energy management solutions. As an optimization engineer, your role will involve development of advanced algorithmic solutions that meet given specifications, and ensuring successful implementation and/or roll-out, depending on the project and timeline. This is an exciting role that will allow you to contribute to state-of-the-art technology in various projects with some of the most notable automotive OEM and Tier 1 companies.

Responsibilities

- Conception, design, and development of vehicle- and fleet-level energy management solutions
- Performing evaluations with clients to understand the unique goals, specifications and requirements of each project
- Definition of software requirements, test specifications, design documentation and implementation
- Ensuring highest quality standards during the entire product life cycle
- Coordination of development efforts with other members of the software development team in an agile manner

Necessary requirements

- University degree (MSc or BSc) in electrical engineering, computer science, mathematics or similar - FH / Uni / ETH or equivalent
- Basic knowledge of optimization algorithms
- Hands-on experience in Python or Matlab/Simulink in an industrial setup
- Demonstrated experience in software engineering and/or optimization-based projects
- Excellent communication skills in English
- Ability to adapt to rapidly changing tasks and requirements

As a plus:

- Familiarity with model predictive control
- Experience with (mixed)-integer optimization and scheduling algorithms and tools (e.g. Gurobi)
- Experience with energy management solutions
- Track record in automotive/energy industry

Preferred starting date for this position: ASAP