

# AEROSPACE GNC INTERNSHIP

Embotech is a software company developing cutting edge motion planning technology for autonomous vehicles. We are determined to accelerate the transition towards safe autonomous space transportation 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 an aerospace GNC intern you will join a small team of top technical talent to develop safe, efficient, and reliable trajectory generation algorithms for various autonomous space flight mission scenarios. You will be involved in the simulation and testing of novel algorithmic solutions and software that meet ambitious specifications in terms of control performance, computational performance, and reliability. Excitement and learning opportunities are guaranteed in this position.

## Responsibilities

- Maintain and extend Simulink based space simulation tools
- Write automated testing tools to improve the behaviour of your algorithms and software
- Interface to flight simulators and 3D visualization tools
- Support hardware-in-the-loop testing to validate flight code performance against requirements
- Perform flight tests on small-scale prototype
- Document your code and designs
- Coordinate development efforts with other team members

## Basic Requirements

- Bachelor's degree in mechanical, electrical or computer engineering or similar degree with an emphasis on control
- Understanding of control theory, flight dynamics and orbital mechanics
- Proficiency in MATLAB/Simulink
- Knowledge of C/C++
- Knowledge of real-time systems is a plus
- Knowledge of 3D game engines and 3D modelling tools is a plus

We offer an exciting internship opportunity in a fast-growing company in the heart of Zurich. If you think you might be the right fit for us, we look forward to receiving your application.

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