

Open Position

Locomotion Control Software Engineer

ANYbotics AG is an ETH Zurich spin-off developing new solutions for mobile robots. Our quadrupedal robot is equipped with state-of-the-art perception sensors (LIDAR, stereo cameras, GPS) to provide autonomous inspection in challenging environments such as industrial sites, power plants, and subterranean systems.

We are seeking a Robotics Engineer to join our highly motivated development team to enhance the robot's ability to move in challenging environments autonomously.

You work on the locomotion control software including foothold and motion planning and whole-body control, which enables the robot to locomote autonomously over flat and rough terrain.

Your main tasks are to

- Develop and implement state-of-the-art control and planning methods,
- Debug and test the locomotion control software in the field with the robot,
- Develop, maintain and support the locomotion software stack,
- Consult with the hardware development team on specifications.

You have a Master's or Ph.D. degree with a focus on robotic control and a strong track record with practical experience in robot control and planning with the following skills:

- Extensive knowledge of state-of-the-art control and planning algorithms and techniques,
- Must have a strong knowledge of rigid-body dynamics and kinematics,
- Experience with convex and nonconvex optimization solvers,
- Familiarity with whole-body control of mobile robots and manipulators,
- Strong competence in object-oriented programming in C++,
- Experience in programming of real-time, high-rate, and multi-threaded controllers
- Experience with C++ libraries like Eigen, Boost or likewise,
- Experience with ROS and Linux,
- Comfortable with unit testing and debugging hardware systems.

You are an engaged personality used to work proactively and with precision - on your own and in the team. You enjoy the research environment of ETH Zurich to broaden your horizon, to get to know new technologies and to expand your skills continuously. Your profile is complemented by a good knowledge of English.

We offer an attractive working place in the center of Zurich, a market level salary, and an immediate start. As part of our young, highly motivated and dynamic team you will shape the future of our innovative and securely financed startup.

We look forward to your application including qualifications and cover letter on info@anybotics.com.

