PBL Flagship Project 2024

Truly Autonomous Legged Robots for Assisted Living and more

With a Bachelor / Semester / Master Thesis / FreeLancer and Staff at PBL

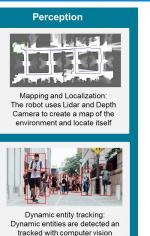
Would you like to participate in the design and development of an autonomous quadruped robot for real-life applications such as blind person assistance and other applications?

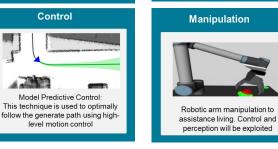
Would you like to work with embedded systems, sensors including cameras and LiDARs, embedded control, hardware and software design, controlling robotic arms, and with state of art legged robots from Unitree?

We are looking students to work in the following areas:

- Embedded control
- State estimation for autonomous navigation with novel sensors
- Computer vision for perception and planning
- Manipulation with robotic arm
- And many other topics
- Participation on students' competitions







Project in collaboration with:



Project sponsored by:







Interested? Apply until 19.02.2024!

Include a short motivation letter, grade transcript and the desired focus topic in your application and send to davide.plozza@pbl.ee.ethz.ch martyste@pbl.ee.ethz.ch



Planning

Global trajectory planning

The oprimal path to a way-point is

computed using the acquired map

Object avoidance:

The path is adjusted locally to avoid

dynamic obstacles