

Internship in AI and Robot Software Development



Are you interested in working in a young, innovative, and dynamic robotics company? Do you want to work with a team of international talents as well as professionals with entrepreneurial experience? Then this might be your perfect opportunity.

F&P Robotics AG is a pioneer in the field of human-robot interaction. We develop and build interactive, collaborative robots for hospitality and care applications. We offer complete robotic solutions, for which we develop both hardware and software.

With the elderly-care assistance robot Lio, we are pushing the boundaries of human-robot interaction and mobile manipulation. Our mission is to assist nurses in their increasingly challenging work due to the demographic change and to improve the life-quality of residents in care facilities. To accomplish this, we utilize modern approaches from the fields of robotics, artificial intelligence, software development and machine learning.

Our team is always ready to welcome motivated and enthusiastic students looking to sharpen their skills by working on one or more of the following areas:

Tasks

Individual tasks and goals will be defined to work on, some of them could be:

- Implementing robot skills such as opening a door, bringing drinks and playing games with elderly. Help to increase the functionality of our robots!
- Evaluating, implementation, integration and testing of state-of-the-art Computer Vision algorithms for face recognition, object detection and visual grasping.
- Improving Lio's dialogue system using speech recognition and synthesis.
- Improving the autonomous localization, mapping and navigation of Lio.
- Building up efficient infrastructure for one click deployment, automated simulation tests and information security.
- Achieving real world impact by deploying our robots, providing support and implementing customers feedback to make Lio more useful and reliable.

Requirements

- Bachelor, preferred Master in computer science, robotics, mechanical/electrical engineering, natural sciences or similar
- Good programming skills, preferably in Python
Additional experience in ROS, C++, Angular, Prolog or git are a plus
- Experience developing software in a team
- Basic ability to work with Linux and the terminal
- Highly motivated, hands-on mentality to get things done from prototype to product
- Empathy and interest for customers' needs
- Structured and detail-oriented approach of solving complex tasks
- Swiss or EU citizenship. For other candidates, the internship has to fulfill an obligatory requirement of your university degree.
- Internship duration about 6 months

We are looking forward to receiving your application (in English) by email:

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Applications through recruitment agencies are not considered.