



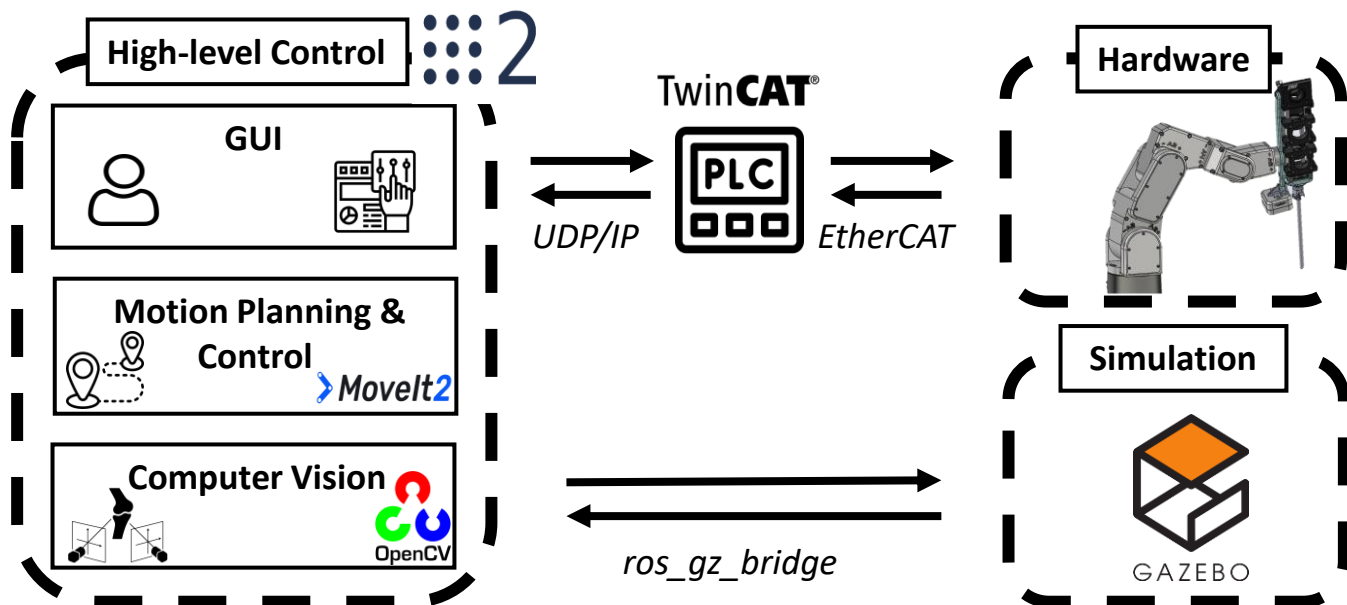
Mechatronic System Development

Research Internship

Joint injuries and cartilage degeneration affect millions worldwide, causing pain and reduced mobility. The **LAROCARE (Laser-Assisted RObot-guided CARtilage REgeneration)** project uses a combination of robotics and laser technology to enable precise restoration of cartilage in the knee.



Task: Help us improve our prototype for upcoming ex-vivo experiments.

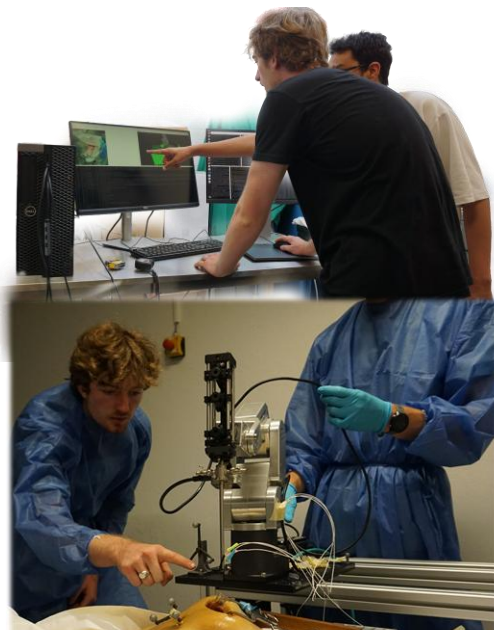


Your Profile

Education: Enrolled in a degree program in **Robotics, Mechatronics, Electrical Engineering**, or a related field.

Experience & Knowledge:

- Strong programming skills in **Python** and **C++**
- Experience with **version control (GitLab/GitHub)**
- Advantageous: Familiarity with **ROS2, MoveIt, and Gazebo**
- Bonus: Experience with **Matlab, TwinCAT3, CAD Software (Solidworks)**, 3D-Printing



Apply to this project by email. Send us (jan.schimmelpfennig@unibas.ch) your **CV**, and **diplomas**, and **course transcripts**.

On-Site or Remote

Department of Biomedical Engineering (DBE),
Basel (CH)



Jan Schimmelpfennig
PhD candidate



Dr. Michael Sommerhalder
Postdoc

