

Seminar

Translational and Clinical Wyss Zurich Projects

Tuesday, June 26, 2018 at 12:30 – 13:30
Kurszimmer NORD1 C301,
University Hospital Zurich

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Developing a modular system of application-specific prosthetic hands for children and adolescents – Status quo within the Wyss Zurich SwissProsthetics Associate project

Children and adolescents suffering from forearm loss or upper amelia (lack of a limb since birth) are restricted in the types of activities they can engage in. SwissProsthetics provides a robust, reliable and affordable modular prosthetic solution that allows a variety of activities - such as biking and skiing - to be performed with minimal restrictions.

The team develops prosthetic hand modules for various activities. Solutions for riding a bike, alpine skiing, cross-country skiing and playing tennis, among others, have been developed and successfully tested. The hand modules are coupled to an adaptive shaft through a quick-release coupling system which makes it possible to attach and release the prosthetic modules quickly and reliably. The team is continuously working on adapting and expanding the range of applications to meet the relevant needs.

The project was launched as a two-year cooperative venture between appsocial.org and the Institute of Mechatronic Systems at ZHAW in Winterthur. At Wyss Zurich, the project team develops the necessary process steps for market entry in close collaboration with the project initiator and mentor, Prof. Andreas Trojan, MD.

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