

Variable stiffness prosthetic grasper with myoelectric control

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Motivation and goals

Motor impaired people in Bolivia represent a 10% of the country's population [WHO]. The limited health care system they are not being taking care of.

This project aims at developing a variable stiffness prosthesis that can give back some functions to the user.

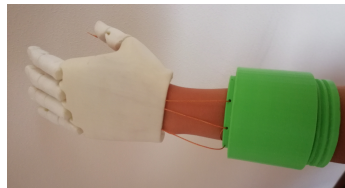


Figure: UPB-UoD Variable Stiffness grasper

Results

- We have developed a mechanism that allows the user to regulate the stiffness mechanically with one hand, and activates the grasper by making a movement with the wrist.
- A couple of myo-electric controllers, were developed as well. These will be used for the second stage of the project.

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