ENGINEER 1C03 – Engineering Design & Graphics

McMaster Engineering 1 Design Project

Instructor: Dr. Doyle

**Technical Report**

Team #4

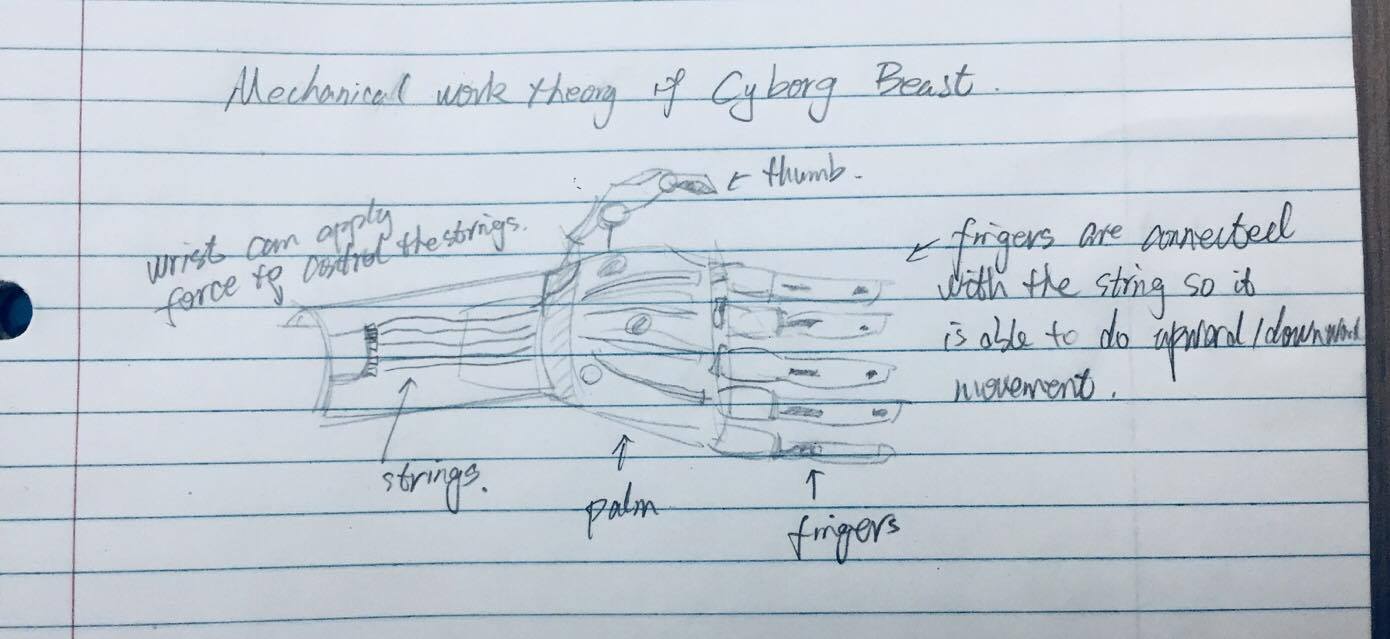
Lab Section: L01

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# Study of existing hand prosthesis

Hand prosthesis is an advanced artificial hand which help patients who lost their hand. This device requires patients to have a functional wrist and enough palm to push against the device, to force the fingers to close when the wrist is bent.

An example of the design is the Cyborg Beast (<http://enablingthefuture.org/upper-limb-prosthetics/>), designed by Jorge Zuniga and his team at Creighton University. It uses the strings inserted in the outfit to control the movement of the hand.

As the patient applies force from wrist and palm, he/she can grip objects like using a human hand. To improve the friction, the designer chooses to apply textured fingertips to prevent object from slipping off.

# Our design proposal

