

16-848: Reference list for Wednesday, March 27th

Today we focused on the development and design of the MPL hand, following this recent article:

Johannes, Matthew S., Eric L. Faulring, Kapil D. Katyal, Matthew P. Para, John B. Helder, Alexander Makhlin, Tom Moyer et al. "The modular prosthetic limb." In *Wearable robotics*, pp. 393-444. Academic Press, 2020.

We focused on design specifications for the hand, the design process, and key elements of the design, including choice of actuators, sensors, the need for specialized motors, and the design of linkages for proper curling of underactuated fingers in contact.

Select slides are linked to the course web page.

The project page for the group is here:

<https://www.jhuapl.edu/work/projects/revolutionizing-prosthetics/research>

You can find a pdf of the entire article linked in a piazza post from the class.