

Staff Meeting 2/22/18

Purpose: Finished machining the exo parts and assembled the first working prototype

Attendees: David Trevas, Ethan Michel, Azalea Grant, Robert Libby, Brandon Begay, Hannah Rentschler.

Meeting Time: 2:30-4:00 pm

Minutes Recorder: Hannah

Azalea finished machining the pulley and the belts and belt pulleys arrived.

Hannah and Azalea continued designing the hinge and getting ready to build.

We assembled the exo and realized that the pulley system cannot translate motion to the toe as they are both connected to the same plate. Flipping the way the hinge is attached dose not solve the problem since the toe plate pushes into the ground. The only way to use this translation system is to either push the toe plate away from the foot or attach the larger pulley somewhere other than the foot plate.

The team discussed different options and decided that it was simpler scrap the translation method and move the torque sensor and large pulley directly to the hinge shaft.

This design change involved making the shaft longer, changing the width of the pulley, and updating the t-bracket so that it matches the new pulley dimensions.

We started working on redesigning the pulley and T-bracket