

## Team Meeting

**Date:** Wednesday January 31, 2018 2:30-5:00Pm.

**Location:** Machine Shop

**Lead Person:** Hannah Rentschler

**Minutes Recorder:** Hannah Rentschler

**In Attendance:** Azalea Grant, Ethan Michel, Brandon Begay, Robert Libby, Hannah Rentschler.

### **Executive Summary:**

Updated the team on progress made and continue machining the exoskeleton parts.

### **Minutes:**

The team voted to change the current lever arm design to the modified directly actuated design. The vote was split three to two with the majority voting in favor of the new design. So the team decided to abandon the lever arm and move toward the pulley and belt driven hinge joint design.

The team continued working on the exoskeleton by connecting the hinge to the plates, making a L bracket for connecting the torque sensor and pulley, and researched where to buy chains/sprockets and/or belts/belt gears.

The team also compiled a list of things to be done for the new design:

- Calculate ankle pulley size
- Calculate ankle sprocket/pulley size
- Calculate foot sprocket/pulley size
- Calculate motor pulley diameter
- Verify that the device will be able to rotate 5 degrees
- Print the base for under the foot plates
- Print a heel support
- Print the motor brackets
- Machine the ankle pulley
- Machine the T-bracket
- Make the upright
- Machine the motor brackets
- Machine the motor pulley
- Make the motor plate
- Buy belts
- Buy belt pulleys
- Buy stuff for orthotics and uprights

- Design a new hinge idea and build it
- Buy a PCB