**Group Progress Report**

**Group**: Drew Levy, Harvey Shi, Sam Fox

**Project**: Limb Load Monitor

**Date:** Nov. 19, 2017

**Goals for the past week** (copied from last progress report)

With a focus on the finger tremor project:

1. Obtain electrical components from Matt Brown, including light-sensitive components like a photoresistor or photodiode
2. Test electrical components, see which ones work best
3. Layout PCB in Altium
4. CAD electronics enclosure and 3D print
5. Setup meeting with Matt Brown to etch PCB

For the leg load monitor:

1. Conduct more trials of Velostat to determine if signal drift and repeatability will be issues going forwards
2. Develop design specs for the device

**For each goal above, comment on your progress**:

For the tremor project:

1. We obtained components from Matt Brown, including resistors, LEDs, a photoresistor, and a photodiode.
2. We tested the electrical components and chose to use a photoresistor as our light-sensitive component.
3. The layout for the PCB was completed in altium.
4. An enclosure was 3D-printed. We are currently making a new iteration of our enclosure to make more space for the PCB components.
5. The PCB was etched with Matt Brown this week.

For the leg load monitor:

1. Velostat trials were not conducted as we focused on the tremor project.
2. Design specs were developed and submitted to Dr. Salinas for feedback.

**Goals for this week**:

For the tremor project:

1. Complete new iteration of electronics enclosure, make sure everything works together.

For the leg load monitor

1. Complete the design specs, hazard analysis, and evaluation plan

\*this upcoming week is Thanksgiving, so there won’t be much to shoot for accomplishing this week considering that we’ll be out of town for most of the week.

**Are there any difficulties with which you need assistance?**

Not at this time.

**Other comments:**

This week was focused on getting the tremor project done, so no progress was made on Velostat testing. We hope to complete this testing following thanksgiving break.