**Group Progress Report**

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

**Project**: Limb Loading Monitor

**Date:** November 26, 2017

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

For finger tremor:

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

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

1. New iteration completed, several improvements were successful. However, the part of the casing that covers LED to photoresistor pathway needs to be adjusted and made higher.
2. Completed and submitted.

**Goals for this week**:

1. Finish finger tremor device and prepare demo to Mark.
2. For the code that tests the Velostat pressure membrane, finish building time dependence feature and allow it all to be graphed and stored for analysis.
3. Gather lots of Velostat loading data (with consistent loading patterns over extended time periods) and characterize the sensor drift.
4. Try to develop a calibration solution that overcomes sensor drift (that works long enough for our client).

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

No immediate difficulties, but we anticipate a big challenge in solving the Velostat calibration problem (i.e. to make it accurate and consistent over the client’s period of use, without the therapist having to calibrate it). We have a lot of ideas that we will try (Bob has been advising us on this), but if those fail we will be looking for more advice.

**Other comments:**

None.