Work Completed:

During this past week we went with Matt to Yarde Metal to pick up the platforms needed for our platform design. The final design was almost finished but at our meeting, changed our design drastically. We will no longer do a platform scale but a rail scale (as shown below). I have been re-doing the final design, basically just updating the mechanical analysis of it. The two rails will have a dimension of 36” x 10” and we would just cut up the platforms we got to fit those dimensions. We would have four ramps at the end of each rail. The ramps will fold into the rail scale and the scale will be portable. The rails will be separate but we will add a feature (basically taking out the bars) so that they can come together if needed. The bars would then be somehow placed under the scale. The scale will be supported by the load cells.

Scale’s Front View:

We divided our responsibilities and the following are mine:
1. Doing the mechanical analysis of the final report.
2. Making the Visio Drawings of the machine design.
3. Designing and machining how the rails are going to come together when needed and a handle so that the scale can be portable. (basically designing scale’s portability / accessories)
4. Power Source (picking up the right battery)

**Current Status**

So far, the scale has just taking a drastic change. This past week we have just been re-designing it. The load
cells have arrived so now that we have the dimensions of it, the mechanical analysis can be finish.

**Future Work**

For this coming week I will be basically making a testing platform for the load cells so that Erick can analyze the electrical output based on the mechanical input. And, most importantly I would be picking up the right battery according to specifications.

**Hours Work:** 12