Charging Station Progress

Group Number: 22A

Group Advisor: Pr. Bigelow Group Client: Pr. Bigelow

Group Members: Hamzah Abeer, Aziz Almarzougi, Nick Riesberg, Derek Schmitz, Matt

Stobb, Brandon Umscheid

Last week was our first split group meeting. The first thing we decided, for the time being, was to have our meetings at 4:00 pm on Wednesdays. We split the meeting into a few different talking points. The first point was about the battery and charging station.

We discussed what parts we thought the charging station needed. This includes specs, diagrams, parts lists, AC/DC conversions, charging different battery types, a possible emergency charging system. We also discussed having a versatile charging station that could not only detect what kind of battery it needed to charge, if possible, but also what voltage the battery needed. We also talked about the safety and protection of the battery in shutting down the charger once the battery was charged.

We also talked about the work area and the best place to assemble and store the car and charging station. We talked about the possibility of building a storage shed and the cost of purchasing. Another possibility was to store it in the same place where the solar car is stored or in the senior design lab. We also talked about a time line and trying to have a working model done by the end of the semester.

The second point we discussed was what we needed from the other group. We needed to know what they wanted to use for the motor and the power requirements for it, what battery abilities they may need, and perhaps a spare battery for the cart. We also needed to know when they can get it built so we can have size parameters for the battery.

The third point we discussed was what tasks we needed done by the next group meeting. We needed to talk to the other group about some of the things we needed. We also needed to research charging stations/circuits and how they are built. We also discussed finding prices and specs battery packs as well as prices for a storage shed.