

Charging Station Progress

Group Number: 22A

Group Advisor: Pr. Bigelow

Group Client: Pr. Bigelow

Group Members: Hamzah Abeer, Aziz Almarzouqi, Nick Riesberg, Derek Schmitz, Matt Stobb, Brandon Umscheid

Last time the group met, we discussed the kind of batteries that best fit both groups, and we agreed to keep searching because we did not know the size limitation and specifications of the batteries. We needed some information from the other group about the space provided in the car for the batteries pack and if they can provide some extra space if needed.

This week, we talked about several things. A research was done by each member of the group about the pricing and packing of batteries to be discussed and compared. Also, the electric car group provided us with the size of the car so now we almost have a clear idea of the size of shed needed. A research was done to find the prices of sheds and discuss a place where we can put the shed and we thought of weather especially during November and December. We also put in mind that the shed should be covered from the top in case of rain. The place issue is solved for this semester but not sure for the coming semester. We talked about connectors between terminals and discussed with Prof. Bigelow and figured out that we will need a fuse to limit the current and also we should know the maximum instantaneous current. These reminded us that we need to talk to Prof. Mina about senior design lab.

After this meeting, we asked the electric car group to provide us with the specifications of the battery and the exact size provided for the battery on the car. We shared what we think is best for the two groups about voltages we are seeking from the battery. An extra space for an extra battery can be easily provided as the other group stated.

As the group meets for the 3rd time, each member should provide his ideas about three things. A website, battery list and a printout schematic. Weebly and Google Sites can be helpful but we will choose the next time we meet. For the battery, we are looking for 48 V and above. And for the schematic, each member can do his research and be creative then we will choose what is best for the group.