

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

In our recent week of meetings we have had many changes occur with our group. We have learned that there is a Mechanical Engineering class that has a similar project as ours and that we are being absorbed into their group project. Contact with the group has been made and discussions of how we will be integrated into the group were discussed. Our project scope and specifications will not change at all and we will still have the same basic timeline as before. However, there are still a few uncertainties our group has. The first being funding options, which Dr. Bigelow said should not be much of a problem for our group because the ME group should be purchasing the batteries. This leaves us the cost of the Microcontroller, Bluetooth, and electrical components being our only costs. We should be able to stay under our \$500 budget for this. The second issue with the new group is how our Advisor/Client relationship will be. We are not sure if Dr. Bigelow will still be in these rolls to our group or just as the advisor. This is something we need to further discuss with him and Dr. Mina.

We have also begun an initial design of our recharging electrical circuit and will continue to change it. The changes will depend on testing and simulating as well as safety features being added to it. With this we need to confer with Dr. Bigelow about certain aspects of the design to see if they are realistic by an operation stand point, as well as safety. We still need to do further research on industry safety standards that need to be implemented as well.

Aziz and Hamzah have moved forward on the microcontroller and bluetooth side and have picked out their components. The components have been confirmed to do what we need them to do and we wish to purchase them to begin programming and testing. This means we need to put in the request to Dr. Bigelow to purchase the products.

We also still do not have access to our team website. Matt is going to figure out why we do not and see what we are supposed to do because we are supposed to upload our **weekly report** to the website.