

## 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

From last week, we discussed more on the charging circuit and how to vary the voltages based on different battery capacities and types. We also began looking more into the engineering standards that we may need to use for the project.

This week's meeting brought everyone up to speed on the latest version of the outlined charging circuit to be more up to date with industry standards that Nick, Brandon, and Derek have been working on. We have now obtained locker storage in the senior design lab for when we start building. We have the website running and we can now upload our documents and weekly reports. We have been added to the multi-disciplinary groups list for file access and should be able to log into their shared folders and see their progress reports and plans. Matt attended the multi-disciplinary meeting last week and introduced the idea of the industrial or mechanical engineering designing the encasement for the batter and charging station itself. Aziz and Hamzah have determined which microcontroller should be used and have now given the information to Dr. Bigelow to be ordered.

The plan for the upcoming week is to continue researching engineering standards and developing the charging circuit. The design document will need to be started. Matt should have put some information together about safety relating to the charging station for design/building purposes that each group member will need to be aware of. The Project plan should be updated with new information regarding the change of client and specifications if necessary.

Some pending issues are the decision for the system battery specifications being determined by the EV group and the multi-disciplinary groups. They are currently using lead acid and want to migrate towards a better battery such as lithium ion. We are waiting to find out who will be responsible for financing the new battery.