

Team: sdmay22-01

Project Title: Hybrid solar/battery for electronic derailleur

Date: October 17, 2021

Members:

- Aydin Bashich - Resistance to vibrations and overlayer
- Connor Davison - Overcharge protection for battery
- Elba Estarellas - Mechanical Constraints: Resistance to vibrations and PV cells
- Mohamed Mohammad - Overcharge protection for battery
- Seth Pierre - Mechanical Constraints: Waterproof and Attachment
- Rachel Vallier - Mechanical Constraints: Temperature and Attachment
- Jack Waskow - Part Selection & Physical Design

What we've accomplished in the past week/what we've been researching

We each began work on our individual constraints and met with the client to discuss the results. Specifically, we discussed some issues with sizing the solar panel for the project. At the client's request, we are continuing to work under the assumption that the requested location and size for the panel will work.

What we're planning to do in the coming week

Each member will continue to research their constraints for future meetings with the client and group. As we work individually on these parts of the project, we will continue our weekly meetings to discuss progress and address conflicts in the constraints. Also, we need to determine the parts we need for our project.

Issues we had in the previous week

Jack - part selection was an issue this week. Finding a solar panel that fits the client's size requirement and the electrical specs for the project has proven to be complicated. Consider using a voltage converter to step up a smaller panel.