This past week we met as a group to discuss our PCB design issue, we have decided that we should only need one board in order to fill our circuits on because our designs are small and it will save us time and money.

The requisition form to purchase the solar panel for our golf cart was submitted and approved by Mr. Scalzo and now we are just waiting on the panel to be ordered and arrive in so that we can test it and mount it to the roof.

The correct voltage regulator chip came in, so we were able to construct the voltage regulator circuit design and now have it outputting a regulated voltage of 13.45 volts, which is exactly the optimal charging voltage for our 12 volt battery.

Now that the solar panel voltage regulator is working correctly, we can start building the other voltage regulator using all the same components just different resistors values to output a voltage of around 7 volts. This regulator will be used to regulate the voltage from the 12 volt battery going to the arduino so that we do not damage the arduino.

Also, this week I would like to finally purchase the separate charge controller for the extra battery and splice it into the controller already mounted on the cart, as a means of back-up to the solar panel and with installing it this way you will only need to plug in to the one socket on the cart and it will charge all the batteries including the extra electronics battery without damaging it.