Since last update, I've met with Mr. Breedlove or spoke with him at least once every day in order to keep progress moving. To this point, He's got the framework assembled for the mounting of the panel using 3/8” angle iron for the frame and 3/4” angle iron for the yoke. He's currently working on getting the coupling for the gearboxes completed.

Team meeting 11/14: Discussed how we will track when Sun is not out. Decided that we will move the panel to 180 degree position if Sun is not detected then search again next cycle. This will prevent unnecessary movement (saving power).

11/15: Assembled gearboxes. Required desoldering motor terminals from the existing circuit board and then soldering them back to the circuit including the new potentiometer. Upon completing, we realized that one of the gears would not fit correctly.

11/16: Contacted Mr. Breedlove about the faulty gear. He was able to modify it and make it fit. He also realized that the 3/8” shaft does not extend high enough from the gear so we will have to find a way to make it protrude further out.

11/18: Met with Mr. Breedlove to examine his progress. He also said that the potentiometer wasn't rotating with the shaft. Looking further into that, we found that we needed to insert a rubber grommet into the shaft and then screw in the potentiometer.

11/19: Called servocity and asked why our shaft doesn't protrude out of the main gear as it does in the picture. Kyle from Servocity asked me to email him a picture of our assembly. He says that we should have inserted the servo into the frame from the underside rather than from above. Mr. Breedlove and I then desoldered the connection to the potentiometer and inserted them from the underside and soldered back.

Other Progress: Continued working on the final paper and user's manual