Work Completed:

This week the work that completed was more research on the power supply.

There are many websites to choose from and I have narrowed down, with Chris’ help the ones that definitely do not work with the easel. It is unnecessary to have a huge power supply that is able to run something much larger than the easel. I also learned about the relays that will be run off the power supply. It is important to understand how each component of the electrical system works so that I am able to pick an appropriate supply.

Work was also completed by looked in the Jameco book and online for illuminated rocker switches as well as keylocks. These were additions to the easel that make it safer for the client and easier for the supervisor to oversee. The rocker switch will be place on top of the joystick so the client can switch off the easel when he is done moving it so that if he accidentally bumps the joystick that it won’t move the easel.

Pictures and data sheets on the orders that we placed this week can be found in my lab book.

Other work that was completed this week was taking two aluminum rods that are going to be used for the vertical motion on the easel and putting them on the lathe. This requires machine knowledge and I was able to take the rods from ¾” to ½” in diameter.

The final job of design that I did this week was to find the levelers that will go on the bottom of the clamps attached to the table. As mentioned in last weeks report, this has been researched further. As the budget is showing that our group needs to cut down on
spending before we go over the allotted $750, I think it will be best if we fabricate something for the levelers that will be cheap.

![Image of a rod lathed down from ¾” to ½”](image)

*Figure 1: This is an example of the rods that I lathed down from ¾” to ½”.*

**Future Work:**

For the future work I will pick a power supply this week and place the order during Friday’s session in the lab. This gives me time to make some final decisions and run it all my by team to be sure that they agree with the choice and find it suitable for the project. Other things that will be completed is setting up the wires off the relays so that when the carriage and base and frame are all put together I can make sure that they all fit together well. I will be able to know where the wires run and be sure that the easel can still fold down safely without any wires getting in the way. Once the wires are set in place I will design a box to house all the electrical components in so that its safe for the user and the people around the user.

**Project Review:**

I think that at this point in the semester, the easel is moving along quite well. The fabrication is coming along as well as all the other components. It was important that we
began other parts of the easel and not just concentrated on one at a time. This way, when all our parts are finally in every piece of the easel individually will be ready to be put together.

**Hours Worked:**

The hours worked this week was 11.