Easel 5000
Week 10
April 3 – April 7, 2006
Justin Yu
Seth Novoson
Alison Biercevicz
Work Completed

This week the project wrapped up. Some problems were encountered with the PCB when it was tested. It was found the potentiometer didn’t work. After some trouble shooting with a volt meter and probe it was found that the PCB schematic had been accidentally numbered incorrectly. This led to 2 of the pins on the NPN transistors being swapped on the board. Ideas were discussed to fix this. Finally it was decided that the transistor would be manipulated so that the board would work correctly. However it was then found the light being emitted from the board was not nearly bright enough. To fix this one of the resistors was swapped out to improve brightness. However with all of the soldering done to the original board it was no longer working perfectly so all of the parts had to be removed and placed on the extra PCB. This was then wired up. The enclosure had numerous test holes drilled to ensure a good PCB fit. Then the final enclosure was drilled the PCB soldered into place and all of the parts were finalized.

Finishing touches were done on the frame of the easel. A trip to Mansfield supply was taken in order to obtain some last second screws and washers for the LED attachment to the easel. The fasteners were also machined to be easier to use for attachment to the table. A final run through will be done to ensure everything is working properly.
Express SCH/PCB schematics with errors that had to be fixed

Project Review

Some extra time had to be put in this week to wrap things up. Everything was finished on time and all of the requirements of the project were met. In conclusion the last week was a bit
hectic but everything worked out well overall and the easel is very adjustable and functional. The project was successful.

**Hours Worked**

Justin-12 hours

Seth- 11 hours

Alison- 13 hours