Easel 5000
Week 4
March 20 - March 24, 2006
Alison Biercevicz
Work Completed

PCB Board

This week the major portion of the work was done on the PCB board. The PCB board had to be rearranged and compacted. This took a large deal of time to rewire the components and recheck the system. The potentiometer’s footprint had to be rechecked with the actual potentiometer. The other parts were also check to make sure they would fit into the board in their allocated positions. The LEDs, resistors, transistors, capacitors, battery wires, switch wires and 8 pin dip socket all fit into the board. Also the copper lettering was done to identify the parts on the board.

Express PCB schematic crunched

PCB Board Enclosure

Another large portion of the work this week was spent finding an appropriate enclosure for the LED PCB and lighting system. Numerous websites were searched for a plastic box with the correct dimensions. More than one option was found. Hammond manufacturing was found to have the best options. Two separate boxes that could be good fits for the PCB were
obtained as free samples and should be received next week. The PCB board will now be scaled to fit these boxes.

**Hammond Manufacturing 1591H Enclosure**

**Machine Shop**

Time was spent helping Seth to cut plastic pieces for a battery enclosure. Also measurements for an alternate PCB enclosure were made and cut. This will allow some leigh way with PCB mounting options.

**Future Work**

At the end of this week the PCB will be ordered and will hopefully be received in 4 or 5 business days. This will allow just enough time to construct the board and plastic enclosure and get it mounted on the easel. The battery case will also be constructed using pieces of PVC and then mounted on the easel base.

**Project Review**
The end of the semester is nearing and the project is wrapping up. All of the major details have been taken care of. At this point we are waiting for a few things to be delivered in order to proceed with the project. Once those parts are received we will finish the final construction and will hopefully be done by the deadline. This may take a few extra hours in the remaining weeks but completing the project is feasible.

### Hours Worked

Alison- 13 hours