Easel 5000
Week 4 Report
February 15, 2006
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Work Completed
Machine Shop Work

The majority of machine shop work was completed this week. Last week, we had received damaged materials from AIR Inc. and were sent replacement materials this week. The damaged material was salvageable for the most part and the replacement materials were used to fabricate additional parts for integration into the base frame design. The rounded extrusion cut to length during the previous week was saved in reserve for when the new fasteners come in. Using the salvaged and replacement materials, all the necessary components were cut to length and if end fasteners could be used to join pieces together, the appropriate pieces were drilled and tapped.

Future Work
After assembling the frame, more focus is going to be put on mounting the LED system on to the canvas holder and building the clamp into the base to secure the easel to the tray. Research into both LED mounting options and damping systems has been ongoing, but when the initial construction of the easel is completed, the group will be able to better assess the available options.

Project Review
Despite waiting for the assembly screws to come in, the project is on track. Significant progress has been made in areas of power supply research and LED circuit design. Preliminary damping options have been explored and will be evaluated for practical implementation after a budget including shipping costs has been obtained.

Hours
11 hours
Pictures and Diagrams

Figure 4.1 – Using the drill press to create allen wrench access holes.
Figure 4.2 – Deburring an extrusion piece with the belt sander.