Fundus Reading Hood

Client: Dennis G. Hafford

Team Members: Leah Brandon (Leader)
               Adam Dahlen (Communications)
               Nathan Kleinhans (BWIG)
               Sara Worzella (BSAC)

Advisor: John Webster

November 4 to November 10, 2005

Problem Statement
The goal of this project is to develop a monitor hood that will block ambient light. This hood must comply with the following specifications. The length must be adjustable and extend out 2 ft while keeping the monitor viewable at any length. It must be easily removable with a small footprint when stored, or will open up without requiring any space allowing regular viewing modality. There cannot be a footprint behind the monitor and it must taper to a closed viewing port of approximately 8 1/4” by 2 3/8”. Also, the hood should be self-supporting (no legs when extended) with an adjustable angle of view to allow grader to maintain good posture.

Summary of Team Accomplishments for the week
• Obtained epoxy
• Design drawings of hoods
• Machine shop orientation
• Obtained a light-meter

Current Week’s Goals
• Construction of attachment pieces
• Construction of Hood (final fabric determination)
• Measure light intensity

Project Difficulties
• Team is having some difficulties getting started in the machine shop. Practice will be done this week along with construction to become more familiar with using the tools.

Project Schedule
Week 1-2 worked on separate project
Week 3 meet with client, literature search, develop PDS as a team
Week 4 brainstorm design ideas
Week 5 decide on three alternative designs
Week 6 work on oral presentations and written report
Week 7 oral presentations: hand in report, PDS, design notebooks
Weeks 8-11 decide upon final design, work on prototype
Weeks 12-14 prepare for final presentations (Dec 2), finish final design
Week 15 hand in written report and notebook to advisor (Dec 7) and final advisor meeting (Dec 9)

Activities

**Leah Brandon:**
- Prototype: 1 hr
- Progress report: .5 hrs
- Team Communications: .75
- **Total:** 2.25 hrs

**Adam Dahlen:**
- Obtaining materials: 1 hrs
- Team Communications: .75 hrs
- Machine shop orientation: 1.5 hrs
- **Total:** 3.25 hrs

**Nathan Kleinhans:**
- Team Communications: .75 hrs
- Machine shop orientation: 1.5 hrs
- **Total:** 2.25 hrs

**Sara Worzella:**
- Team Communications: .75 hr
- Machine shop orientation: 1.5 hrs
- **Total:** 2.25 hrs

Team Total Hours this week: 10 hrs

Team Total Hours to date: 113.33 hrs

Expenses:

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<tr>
<th>Item</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Velcro</td>
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