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 18 to November 23, 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

• Continued corner piece and main hood construction
• Dimensions for top hood finalized
• Separated the presentation parts
• Contacted CAE about using a monitor for the presentation

Current Week’s Goals

• Finish all prototype construction
• Test prototype
• Have all presentation materials finalized

Project Difficulties

• We are currently waiting to hear back from CAE about using a computer monitor to demonstrate our prototype. Construction is going well, with no major complications.

Project Schedule

Week1-2  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: 2 hrs
- Progress report: .5 hrs
- Hood Dimension Meeting: 1 hr
- Total: 3.5 hrs

Adam Dahlen:
- Prototype: 2.5 hrs
- Total: 2.5 hrs

Nathan Kleinhaus:
- Prototype: 2.5 hrs
- Total: 2.5 hrs

Sara Worzella:
- Prototype: 2.5 hrs
- Hood Dimension meeting: 1 hr
- Total: 3.5 hrs

Team Total Hours this week: 11 hrs
Team Total Hours to date: 138.83 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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<tr>
<td>Thread</td>
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<tr>
<td>Suraline Fabric</td>
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