Fundus Reading Hood

Client: Dennis G. Hafford

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

Advisor: John Webster

September 21 to October 27, 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 majority of materials
- Contacted Instrument Shop
- Solutions to monitor attachment problem

Current Week’s Goals

- Finish obtaining materials
- Finalize attachment solutions

Project Difficulties

- Our original idea for attaching the hood to the computer monitor may conflict with certain features on the monitor. Our team is currently redesigning the attachment mechanism for the monitor hood.

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:
- Obtaining materials: 2.5 hrs
- Team meeting: .25 hrs
- Attachment designs: .5 hrs
- Progress report: .5 hrs
  **Total**: 3.75 hrs

Adam Dahlen:
- Obtaining materials: 2.5 hrs
- Team meeting: .25 hrs
- Attachment designs: .5 hrs
  **Total**: 3.25 hrs

Nathan Kleinhans:
- Obtaining materials: 2.5 hrs
- Team meeting: .25 hrs
- Attachment designs: .5 hrs
  **Total**: 3.25 hrs

Sara Worzella:
- Obtaining materials: 2.5 hrs
- Team meeting: .25 hr
- Attachment designs: .5 hrs
  **Total**: 3.25 hrs

Team Total Hours this week: 13.5 hrs

Team Total Hours to date: 92.33 hrs

Expenses

- Fabric, Velcro, Thread, Elastic: $62.73

* a more detailed account of the expenses will be sent in the next progress report.