

Motor Skills Tester

*Client: Marina E. Emborg, M.D. Ph.D.
National Primate Research Center
Department of Anatomy*

*Team Members: Kailey Feyereisen (Leader)
Gina Stuessy (Comm's)
Cali Roen (BSAC)
Lacey Halfen (BWIG)*

Week of November 29 through December 3, 2006

Problem Statement

Design an apparatus to test the fine motor skills of rhesus monkeys that minimizes the cognitive portion of problem solving; should be easy to clean, durable, adjustable for human testing, and attach to cage securely.

Last Week's Goals

- Visit Dr. Emborg to see mMAP in action
- Begin construction of device

Summary of Accomplishments

- Began Construction on device—cut individual pieces, began milling edges, and cut holes in side panels, adapter panels and bottom panel.
- Divided up individual portions of final presentation.

This Week's Goals

- Finish prototype
- Finish poster presentation
- Begin work on Final Report

Individual Goals

Kailey: Assign parts of final report, oversee completion of device

Gina: Contact client to see if Valerie can come see presentation

Cali: Complete individual portion of poster presentation

Lacey: Update website with poster presentation

Rough Schedule

09/08-09/15: Met with client

09/15-09/22: Developed problem statement, researched, and began brainstorming

09/22-09/29: Continued brainstorming, assigned parts and assembled rough PDS

09/29-10/06: Developed preliminary design ideas, continued research, and began rough draft of mid-semester report

10/06-10/13: Continued work on mid-semester presentation/paper parts

10/13-10/20: Assemble PowerPoint, give presentation, and assemble report

10/20-10/27: Edit report and turn it in, begin focus on final design, locate materials
 10/27-11/03: Contacted Bruce about materials, submitted machine shop permission slips
 11/03-11/10: Begin work on prototype
 11/10-11/17: Continue work on prototype and begin testing if possible
 11/17-11/24: THANKSGIVING
 11/24-12/01: Visit Dr. Emborg to see current device, begin construction
 12/01-12/08: Finish device and presentation, begin work on final report
 12/08-12/15: Hand in final report

Difficulties

With design projects resolving in the next week, our main difficulty was procuring the machines to mill our device. We have reserved the machine for eight hours on Wednesday, which will be more than enough time to smooth the edges, create the grooves, and screw the box together.

Activities:	Hours
Kailey: Team meeting, construction of device	8
Gina: Team meeting, emailing, construction of device	8.5
Cali: Team meeting, construction of device, visiting Primate research center	9.5
Lacey: Team meeting, work on website, construction of device	9.5

Hours to Date	Hours
Kailey:	32
Gina:	32.5
Cali:	34.5
Lacey:	32

Expenses

No expenses to date