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 17 through November 28, 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
• TB tests so we can get into the lab and inspect current device in greater detail (obtain measurements and get better idea of system that the device will work in).
• Begin construction and finalize design for device.

Summary of Accomplishments
• Contacted Dr. Emborg about meeting with her in the coming week to see the current device she uses for testing.

This Week’s Goals
• Visit Dr. Emborg to see mMAP in action
• Begin construction of device (we weren’t able to do this last week because of the holiday)

Individual Goals
Kailey:
Gina:
Cali:
Lacey:

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
Motor Skills Tester 2

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: Contacted Bruce about materials, submitted machine shop permission slips
12/01-12/08: Assemble presentation, edit paper, and give presentation
12/08-12/15: Hand in final report

Difficulties
The holiday and Dr. Emborg’s travel schedule made it difficult for us to get in to see her last week. We will be sending team members early this week to see the device. With the difficulty we’ve had scheduling meetings as a result of our varied schedules, it has also been difficult to pin down a time when we will all be able to work on the device together.

Activities: Hours
Kailey: Team meeting, design work 1
Gina: Team meeting, emailing 1
Cali: Team meeting, emailing, BSAC 3
Lacey: Team meeting, work on website 1

Hours to Date Hours
Kailey: 24
Gina: 23
Cali: 25
Lacey: 22.5

Expenses
No expenses to date