

Title: Project 4: Primate Response

Names: Team Members: Corey Arnold, Mike Keller, Mike Mussallem, and Braden Rudolph. **Client:** Andy Roberts, Assistant Professor, Psychiatry and Medical Physics.

Date: 12/5-12/11

Problem Statement: To build a cage-mounted or wall mounted device for the quantitation of both fast (startle) and general motion and activity of the rhesus monkey that is also able to accommodate current cage dimensions, record data remotely and quantitate motion regardless of the monkey's position in the cage.

Restatement of Team Goals:

- To connect the attachment mechanism to the force transducer when it is done being built.
- Start poster for our final day of class.

Summary of Accomplishments:

- We took pictures and videos of our laboratory, force plate, and monitor giving visuals of force plate in action
- Corey started building the box/attachment mechanism for our cage
- We started writing our final report and our presentation.

Statement of Team Goals:

- To finish presentation and paper
- If time, we'd like to finish building the box/attachment mechanism.

Schedule:

WEEK	DATE	LECTURE TOPIC	ACTIVITIES
1	7-Sep	Intro and course expectations	Form teams, select project, contact client
2	14-Sep	Overview of the design process	Literature search, meet with client
3	21-Sep	PDS	Develop project understanding and PDS
4	28-Sep	Oral presentation guidelines	Brainstorm
5	5-Oct	Peer review of report drafts	Work on presentations, Advisor review of notebooks
6	12-Oct	Oral presentations	Hand in written report

7	19-Oct		Decide on final design
8	26-Oct		Work on design
9	2-Nov		Work on design
10	9-Nov	Ethics	Work on design
11	16-Nov		Work on design
12	23-Nov	Thanksgiving	Work on design
13	30-Nov		Work on design
14	7-Dec		Work on design
15	14-Dec	Final presentations	Hand in written report and notebook
17	Dec 17-21		Final meetings with advisors

Difficulties:

- Putting videos together for our final presentation

Activities: On 12/7 the group met for an 1 hour, then Corey, Mike M., and Braden went down to the wiesman center for 3 hours and did more work with the force transducer. On 12/10 Corey, Mike M., and Braden went down to the weisman center and took digital pictures and movies of our force transducer in action, and pictures of our lab. On 12/11 Corey started putting the attachment mechanism together. Later that day the group met for 2 hours to work on our presentation and report. Today, Corey, Mike M., and Braden are meeting to buy supplies for our poster, and continue working on it.

Weekly Time (In Team):

- Meeting on 12/7: 1 hrs
- Meeting 12/11: 2 hrs
- **Weekly Total: 3 hrs.**
- **Cumulative: 26 hrs.**

Individual Time (Corey):

- Meeting and going to the Weisman center on 12/7: 4 hrs
- Taking pictures of the lab on 12/10: 2 hrs
- Putting together attachment mechanism: 4 hrs
- Working on presentation on 12/11: 2hrs
- Working on presentation on 12/12: 3 hrs
- **Total: 15 hrs**
- **Cumulative: 62.25 hr**

Individual Time (Mike K):

- Meeting and going to the Weisman center on 12/7: 4 hrs
- Working on presentation on 12/11: 2hrs

- **Total: 6 hrs**
- **Cumulative: 39 hr**

Individual Time (Mike M):

- Meeting and going to the Weisman center on 12/7: 4 hrs
- Taking pictures of the lab on 12/10: 2 hrs
- Working on presentation on 12/11: 2hrs
- Working on presentation on 12/12: 3 hrs
- Working on Iron Cad: 2 hrs
- **Total: 13 hrs**
- **Cumulative: 49.25 hrs**

Individual Time (Braden):

- Meeting and going to the Weisman center on 12/7: 4 hrs
- Taking pictures of the lab on 12/10: 2 hrs
- Working on presentation on 12/11: 2hrs
- Working on presentation on 12/12: 3 hrs
- Writing this report: .5 hrs
- **Total: 11.5 hrs**
- **Cumulative: 53 hrs**