

Team Members: **Dan Jonovic** – Team Leader
 Andrew Dias – BWIG
 Nick Balge – BSAC
 Whitney Johnson –Communications

Advisor: Professor Mitch Tyler

Client: Dr. Bikash Pattnaik

Next meeting: 9/26/08, 12:05pm

Problem Statement:

Electroretinogram (ERG) is the measurement of voltage across the retina in response to light flash. The investigator uses a modified system to register voltage across a small piece of retina isolated from mouse. For facilitating this recording it is important to design a computer interface which not only registers voltage response but drives all the ancillary inputs like light source, solution valve openers and stores output as simple files in Excel for further analysis. This is important as this is a viable model for retina research and also for trial of pharmaceutical lead compounds.

Team Goals:

Become familiar with the capabilities of the current program design and its underlying code. Also learn more about how to program in LabVIEW.

Individual Goals:

Dan Learn about human factors aspect related to programming, complete progress report.
Andrew Learn about LabVIEW programming and update the webpage.
Nick Familiarize with LabVIEW programming and development.
Whitney Look into GUI design and gain general knowledge of LabVIEW programming.

Summary of Accomplishments:

We met with the client to establish more quantitative specifications, including wave timing and flash duration. We also began to roughly brainstorm variations in the project for the design options.

Difficulties:

We've learned a lot about the project and program, but still need to become better versed in LabVIEW programming, as a large portion of the project will involve modifying the current design or creating a new one.

Project Schedule:

Week	Date	Topic	Activities / Deliverables
1	September 5, 2008	Introduction and course expectations Course advisors Room 1610 Engr Hall	Form teams; select project; contact client; email team roles to advisor
2	September 12, 2008	Design process and Product design specifications (PDS) guidelines	Literature search; meet with client
3	September 19, 2008		Develop understanding of project; post preliminary PDS on web site; post team photo on web site
4	September 26, 2008		Brainstorm
5	October 3, 2008		Work on design
6	October 10, 2008	Oral presentation guidelines	Decide on design alternatives; work on presentation
7	October 17, 2008	ORAL PRESENTATIONS Note: All students should plan to be present for the full class period.	Put PowerPoint presentation on team web site by 10:00 am
8	October 22, 2008		By 4:00 pm: deposit notebook and written report including PDS in 2135 ECB; email report to advisor and client; fully update web site
8	Friday October 24, 2008	Tong Distinguished Entrepreneurship Lecture	Submit peer/self evaluations by email by 10:00 am; decide on final design
9	October 31, 2008		Work on design
10	November 7, 2008		Work on design
11	November 14, 2008		Work on design
12	November 21, 2008	Poster presentation guidelines	Work on design, Work on poster presentation
THANKSGIVING BREAK			
13	December 5, 2008	FINAL POSTER PRESENTATIONS Note: All students should plan to be present for the full class period.	
14	December 10, 2008		Hand in written report to advisor and client and post it on web site; submit design notebooks; complete final update of web site; submit client evaluation
14	December 12, 2008		Submit peer/self evaluations by email by 10:00 am; final meeting with advisor

Activities:

9/19/08	Team	Team Meeting for establishing what parts of the PDS need to work on and start brainstorming variations for the design.	1.00h
9/23/08	Andrew, Whitney, Nick	Client meeting to discuss specifications on the project including timings and resolution	1.00h
9/17/08	Team	Advisor meeting to discuss PDS	1.00h

Expenses:

There are no expenses to report so far.