

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: 10/10/08, 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:

Establish flow diagrams for both the current program and requested design. Also develop different design ideas and prepare for the presentations next week.

Individual Goals:

Dan Work on flow charts to establish what our design needs to do.
Andrew Work on flow chart for existing program design and deciphering inner program loops.
Nick Learn more about LabVIEW coding to assist in flow charts and program development.
Whitney Gain a better understanding of the various commands in LabVIEW to assist with understanding the current design and working towards a new one.

Summary of Accomplishments:

Several of us had LabVIEW training to help with understanding the code in the program. We also met with Tom Yen to discuss the human factors aspects of the GUI. In addition we met with the client to view the existing design, which is now working and gain a further knowledge of its code.

Difficulties:

Establishing meetings that everyone can attend has been a challenge given various exam schedules. Also, there are deadlines approaching for the presentation and paper – a lot of work will need to be done in the upcoming weeks.

Project Schedule:

Week	Date	Topic	Activities / Deliverables
1	September 5, 2008	Introduction and course expectations Course advisors	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:

10/2/08	Whitney, Nick, Dan	Team Meeting to discuss developments over the past week, revise PDS, and find a time to meet with the client	1.00h
10/2/08	Nick, Whitney	LabVIEW training – gained a further understanding of how to design a program.	2.00h
10/2/08	Dan	LabVIEW training – gained a further understanding of how to design a program. Also learned about the LabVIEW design library and how to go about structuring / designing a program.	3.00h
10/6/08	Whitney, Dan	Met with Tom Yen to discuss GUI design and the ergonomic factors that relate to it	0.50h
10/7/08	Nick, Whitney, Dan	Client meeting to view program and see how it operates. Also to gain a further understanding of the program after Friday’s training	1.00h
10/2-10/8	Andrew	Brainstorm Designs	1.00h

Expenses:

There are no expenses to report so far.