

ERG Recorder

Week 4: 9/26/08 – 10/02/08

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: 10/03/08, 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 different design ideas. Also look at modifying the current program design of the client.

Individual Goals:

Dan Attend LabVIEW session Friday afternoon, work on GUI design with Tom Yen.
Andrew Research LabVIEW programming and update the webpage.
Nick Familiarize with LabVIEW programming and development.
Whitney Look into GUI design and gain and LabVIEW programming.

Summary of Accomplishments:

We brainstormed variations in the design for our project and also performed some more research into LabVIEW programming.

Difficulties:

It has been difficult scheduling meetings due to midterms and conferences over this time period – most work has been done individually

Project Schedule:

Week	Date	Topic	Activities / Deliverables
1		ERG Recorder	9/8/2008

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:

9/26/08	Andrew, Whitney, Nick	Team Meeting: further discussed the changes to specifications from the client meeting	1.00h
9/23/08	Team (Individually)	Brainstorm designs, develop Labview Skills and work on GUI design	1.00h

Expenses:

There are no expenses to report so far.