

**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:** 9/19/08, 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:**

We need to diversify our research efforts in order to work on more aspects of the project at once and be able to quantify the PDS.

**Individual Goals:**

Dan	Learn about and research GUI developments and the human factors aspect related to programming, complete the progress report
Andrew	Meet with the client to gather more information on the project and develop specifications. Also, further research an aspect of the project identified as important in the client meeting and updates the webpage.
Nick	Meet with the client to gather more information on the project and develop specifications. Also, research an aspect of the project identified as important in the client meeting.
Whitney	Meet with the client to gather more information on the project and develop specifications. Also, research an aspect of the project identified as important in the client meeting.

**Summary of Accomplishments:**

We have become knowledgeable in ERGs and some of the base aspects of the project. We've also established a draft PDS and questions related to making our specifications less ambiguous, such as "easy to read".

**Difficulties:**

Many of the specifications in our PDS are general – it is necessary to gather more information before establishing more specific guidelines. We also aren't well versed yet with aspects such as the resolution and timing of LabVIEW hardware and the human factors portion of GUI development.

**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:**

9/12/08	Team	Team Meeting	2.00h
9/16/08	Team	Team meeting to combine information to create a draft of the PDS	1.00h
9/17/08	Team	Advisor meeting to discuss PDS	1.00h
9/12 - 9/16	Team (Individually)	Research into separate portions of the PDS to establish specifications before the team meeting	0.75h

**Expenses:**

There are no expenses to report so far.