

Skin color Monitor

Progress Report #1, September 12, 2007

Client: Prof. John Webster

Team: Jack Ho (Leader)

Patrick Kurkiewicz (Communications)

Joseph Yeun (BWIG)

Brian Ginter (BSAC)

September 7 to September 14, 2007

Problem Statement

Develop a miniature electronic device that records change in skin color during hot flashes.

Last Weeks Goals

- Role assignment
- Contact client and schedule meeting
- Gather preliminary information about skin testing, hot flash monitors, color-change monitors, etc.

Summary of Accomplishments

This week we each did some research on the subject of hot flashes, devices that monitor them, and color monitors. We read the literature provided by Professor Webster and found several products made by various companies that monitor color and skin health. However, none of the devices were very applicable to our problem, as they were in most cases far too large and/or "overqualified".

We met with professor Webster on Wednesday and went over previous designs of hot flash recorders, not having to do with color, and how they recorded the changes in the skin during a hot flash. We discussed the monitoring of skin color during a hot flash and he showed us some possibilities based on using LED's and Photodiodes.

This Weeks Goals

- Acquire parts (such as LED's, photodiodes, etc.)
- Review circuitry
- Come up with some basic circuitry designs
- 3 rough design ideas per person
- Rough draft of PDS

Activities

Jack:

Team Roles (.5 hrs)

Research (2 hrs)

Total: 2.5 hrs

Brian:

Team Roles (.5 hrs)

Research (2 hrs)

Total: 2.5 hrs

Patrick:

Team Roles (.5 hrs)

Research (2 hrs)

Client Communications (.5 hrs)

Total: 3 hrs

Joseph:

Team Roles (.5 hrs)

Research (2 hrs)

Total: 2.5 hrs

Project Schedule

9/7	Form team, contact client, assign team roles, set up client meeting
9/14	Literature search, create problem statement, begin PDS
9/21	PDS, brainstorming, begin developing designs
9/28	Brainstorming
10/5	Decide on 3 design alternatives, prepare for mid-semester presentation
10/12	Work on presentation
10/19	Mid-Semester Presentation
10/25	Hand in report (and PDS) and notebooks, decide on final design
11/2	Work on final design
11/9	Work on final design
11/16	Work on final design
11/23	Thanksgiving Break
11/30	Work on final design, poster presentation and paper
12/7	Final Poster Presentation
12/12	Hand in final written report and notebooks
12/14	Final meeting with advisors