

Pulse Oximeter Team

Progress Report #7

2/7/09 – 2/13/09

Team Members

Bogdan Dzyubak – Communicator
Joe Helfenberger—BWIG
Jonathan Meyer—Leader
Matthew Parlato—BSAC

Clients

Amit Nimunkar
Jonathan Baran

Advisor

Dr. John Webster PhD.

Problem Statement

The purpose of this project is to develop a low-cost pulse oximeter for use in developing countries. It will be integrated with an innovative medical technology platform which uses a handheld processing device to record and display patient data. The oximeter must be rugged, durable, inexpensive, and must deliver data to the handheld processing device as an analog signal.

Team Goals

Previous goals for this week

- Write midsemester paper
- Finish initial ear probe design

Goals for the next two weeks

- Develop testable mechanical design
- Investigate rapid prototyping

This week's accomplishments

- Wrote midsemester paper

Project Schedule

The table below is a Gantt chart of the projected timeline. Dark colors are used for completed stages, and light colors for incomplete stages.

Tasks	January		February				March				April				May	
	23	30	6	13	20	27	6	13	20	27	3	13	17	24	1	8
Project Development																
Research	█	█	█	█												
Brainstorm				█	█											
Design					█	█	█	█	█							
Prototype										█	█	█	█	█	█	█
Deliverables																
Progress reports	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Midsemester presentation							█	█								
Midsemester report								█	█							
Final presentation															█	
Final report																█
Communication																
Advisor Meetings		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Client Meetings	█	█														
Website		█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

Difficulties

We had an average of two exams per team member this week

Activities

Date	Time	Team member(s)	Activities
3.9.09	1.1 h	Bogdan	Wrote section of the midsemester report.
3.12.09	3.25 h	Matt	Wrote section of the midsemester report.
3.12.09	1.5 h	Joe	Wrote section of the midsemester report.
3.12.09	1 h	Jonathan	Wrote section of the midsemester report.
3.12.09	2.5 h	Bogdan and Matt	Compiled midsemester report
3.12.09	3 h	Team	Compiled midsemester report

Expenses

Items	Cost
4 photodiodes (2mm×2mm)	< \$20