

Low Cost Digital Thermometer and ECG

Contact Person

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Team

Colleen Farrell (Team Leader)

Tasha Benkovich (BSAC)

Deborah Yagow (BWIG)

Hallie Kreitlow (Communicator)

Week

February 5 to February 12, 2009

Problem Statement

Emerging countries are in need of a low cost ECG and digital thermometer to interface with innovative display technology. These devices should incorporate circuitry with a human sensory interface.

Last Week's Goals

- Get our website running and updated with picture, PDS
- Meet with Amit again to narrow down project details
- Continue research on temperature measurement
- Start narrowing our research to context of the project

Accomplishments

- Website running and updated
- Meeting with Amit and Jon
 - Decided on thermistor design
- Ordered various thermistors from Digi-Key
- Met with Prof Webster and discussed various specifications that still need to be decided
 - i.e. wiring, size, placement, thermistor selection, etc.

This Week's Goals

- Obtain the ordered thermistors and test them in the lab
- Research the best areas to take temperature on the body
- Research the different options for the possible circuit and controller
 - i.e. one-supply op amps, capacitors, 555 timers, and microcontrollers
- Research the conditions of the emerging countries in which the design may be used

Activities

Date	Activity	Time (hrs)
2.5.09	Client meeting	1.0
	Deborah: Solidworks session	1.25
2.6.09	Class Meeting	2.0
2.7.09	Deborah: BWIG session	1.25
2.9.09	Deborah: Thermistor ordering	0.5
2.12.09	Hallie: Individual Research	2.0
	Colleen: Individual research	2.0
	Tasha: Individual research	1.0

Total Time (hours cumulative)

Colleen	13.75
Tasha	11.0
Deborah	14.5
Hallie	13.5

Tentative Project Timeline

Week ending:	January	February					March				April				May
Task	23	30	6	13	20	27	6	13	20	27	3	10	17	24	1
Product Development															
Background Research															
Brainstorm															
Decision matrix															
Final Design															
Prototype															
Testing															
Deliverables (due)															
PDS															
Presentations															