

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

April 2 to April 9, 2009

Problem Statement

Emerging countries are in need of a durable, low-cost thermometer to operate with the MedCal, a handheld medical output device. The thermometer's incorporated circuitry should produce accurate temperature measurements through the use of a human interface.

Last Week's Goals

- Build and test circuitry
- Build and test casing options
- Test options of insulator and epoxy

Accomplishments

- Constructed working circuitry
- Started work on algorithm
- Received materials for testing
- Began bleach testing

This Week's Goals

- Alter circuit to lower power inputs
- Send circuit out to be written on circuit board
- Continue work on algorithm
- Decide on casing materials

Activities

Date	Activity	Time (hrs)
4.2.09	Group Meeting	2.0
	Tasha: Hardware store shopping	2.0
	Hallie: Digital Logic	1.5
4.3.09	Class Meeting	2.5
4.7.09	Group Meeting	2.0
	Hallie: Testing procedures	1.5
	Colleen: Research	1.0
4.9.09	Deborah: Algorithm	2.0
	Tasha: Individual work	1.0

Total Time (hours cumulative)

Colleen	59.25
Tasha	50.75
Deborah	59.25
Hallie	61.0

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															