

Low Cost Digital Thermometer and ECG

Contact Person

Amit Nimunkar

Dept. of Biomedical Engineering

Phone: 698-7413, Email: ajnimunkar@wisc.edu

Team

Colleen Farrell (Team Leader)

Tasha Benkovich (BSAC)

Deborah Yagow (BWIG)

Hallie Kreitlow (Communicator)

Week

April 23 to April 30, 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

- Finish circuitry
- Finish algorithm
- Continue and finish the poster
- Fabricate final prototype

Accomplishments

- Finished and tested circuitry
- Soldered circuit on the prototyping board
- Machined stainless steel tip
- Assembled and tested prototype
- Finished and programmed algorithm
- Made Solidworks and Eagle schematics
- Made testing video
- Made poster

This Week's Goals

- Practice presentation
- Print poster
- Install circuitry into MedCal
- Test accuracy

