

Low Cost Digital Thermometer and ECG

Contact Person

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Team

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Week

April 16 to April 23, 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

- Begin construction of prototype casings
- Testing and calibration of circuitry
- Continue algorithm work

Accomplishments

- Decided on 3M electrodes for metal tip (if electrodes are used)
- Ordered stainless steel rod to possibly machine for a metal tip
- Found pen casing that may be used instead of plastic tubing
- Continued testing on casing materials
- Circuitry problems have delayed algorithm
- Tested thermistors and soldering of wires

This Week's Goals

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

