Pulse Game

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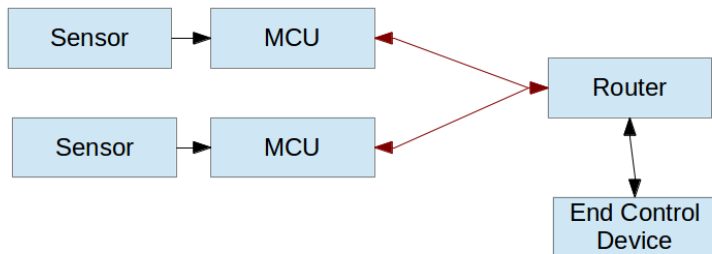
February 6, 2015

Motivation

- Measuring a human heart pulse
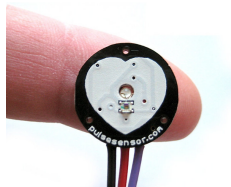- Data processing on sensor node and off sensor node
- A game of patience

Design

Sensor and MCU

Sensor

1. Analog
2. Optical Sensing
3. Pre Amplified

MCU

1. Tinyos
2. MSP430 / Telosb
3. 15.4 , 2.4Ghz Radio

Work Distribution

- 5-6 days max Ananlog Interface and Pulse measurement (Sanjeet , Sanjay)
- 2-4 days parellel Tinyos Application for Nodes (Rajibul, Tauseef)
- 2-3 days Client Side app, tiny GUI [optional], (Tauseef, Rajibul)
- 3 days DEMO preparation and testing (Sanjeet, Sanjay, Tauseef , Rajibul)

References

Heart Image,http://liljohnroberts.com/purposemusic

Pulse Sensor, http://pulsesensor.com/products/pulse-sensor-amped

Telosb Image,
http://www.memsic.com/wireless-sensor-networks/TPR2420