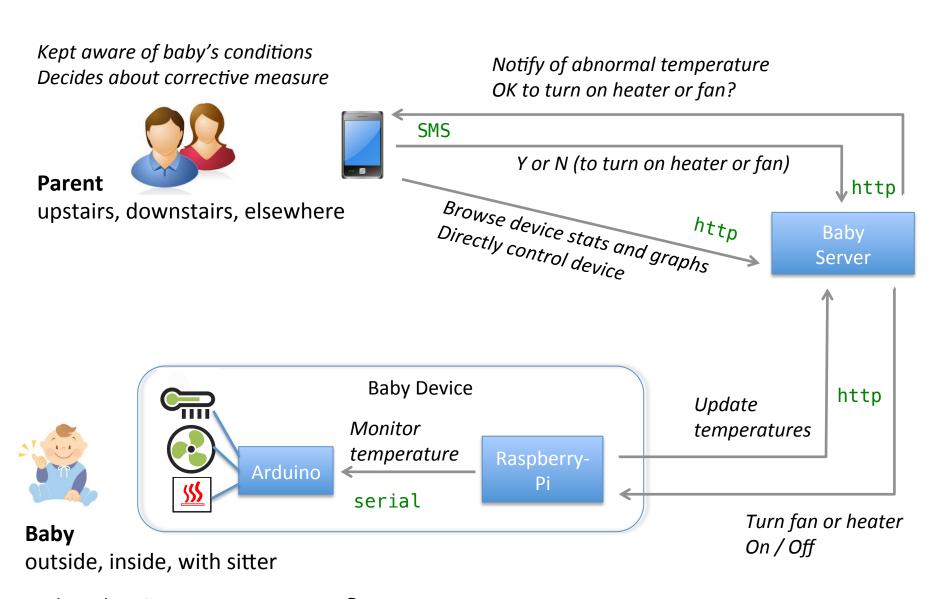
Baby Monitor

An Internet-Of-Things Device
Kelsey D'Souza

Outline

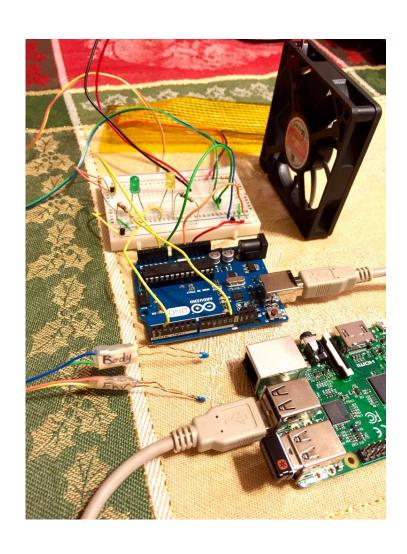
- Overview: From Problem to Architecture
- Software: languages, protocols, libraries used
- Hardware: electrical schematic
- Science: acceptable body temperatures

Overview



Body and Environment Temperature fluctuate

Hardware



Software

- Arduino
 - Programmed in Arduino-C, runs Standard Firmata
- Raspberry-Pi
 - Programmed in Python
 - BreakfastSerial.py module to control Arduino
 - Requests.py to send http requests
 - Bottle.py module to run local web-server
- Baby Server
 - Programmed in Python
 - Bottle.py module to run local web-server
 - Requests.py to send http requests
 - Twilio.py to communicate with Twilio http-SMS gateway