April 20, 2017

Meeting Minutes

Meeting Leader: Garrett

Board Design

* Two JST connectors on breakout board?
  + they are in parallel, one of them just needs to be power/ground
  + we still need one to plug in the battery
* SparkFun can’t be made with the tolerances we are going for
  + traces are too close
  + we could have it made, but it would cost an arm and a leg, over budget
  + Schafer will try submitting it and seeing what they will say (probably won’t be made)
  + our breakout board was designed to work for the preexisting SparkFun board
* Order form
  + yellow parts on the list were the pieces we expected Schafer already owned
  + can’t say that parts cost $0
* Resend battery order form from earlier
* Connecting boards together?
  + solder between pins
  + they make things that will solder in, like risers on the side of Arduinos, sort of header pins that won’t completely solder the boards together, just female pins and header
    - will have groups of three
    - need a single (might have to cut a two)
    - email about these pins
* Will send updated board design

Website

* SFTP to get in
* Gina is having a hard time getting on
* Archival storage for all our documents
* Design is up to us
* Due date not set yet, though most of the documentation will be done by design review
* Schafer will be sending a memo with more info about deadlines

Packaging/Parts to Order

* We can use the 3D printers
* Can use makerbots for free
* Go through Natalie
* Would have to pay to use the larger machines, but test with the smaller machines first
* Can purchase materials for wristband on our own and get reimbursed
* Can’t have MOSFET sticking out
  + Potentially create a board for this
* We still want vibrator on the bottom side of the wristband
* Need to keep a hole for charging
  + Drill one in?

Design Review

* Next week, but we need our board built first
* Show him our lists of requirements and show him how we meet them
* Project presentations:
  + Show will run 1-5
  + Setup like a poster session
  + Other professors will be assessing
  + Pizza at 4

Additional Questions

* If the board can be made, can we get the nRF chip?
  + Should be available from Nordic on Digikey, not specific for SparkFun

Wrap up

* Send other board design
* Schafer will try to send in our second board
* Order form (battery, header pins)
* Schafer will order boards early tomorrow morning, no more after that