

Agenda 13 Feb 2019

Meeting Ran by: Rebecca

Minutes Taken by: Tyler

- ☐ Updates on tasks:
 - ☐ RSL10 Communication:
 - ☐ Working with heart rate sample project
 - ☐ Working towards reading info via bluetooth (ie: battery level, random data, skin contact) directly into txt/csv file
 - ☐ Planning future directions/code
 - ☐ AFE communication
 - ☐ Skin contact code
 - ☐ LEDs/Photodiodes
 - ☐ LED power output tested, lower current values needed than expected.
 - ☐ How to test photodiodes?
 - ☐ Power
 - ☐ 3.7 V LiPo battery 1000 mAh capacity should be sufficient for our uses
 - ☐ RSL/AFE Schematic
 - ☐ Working on getting the correct connections between both AFE's and RSL10
 - ☐ AFE/Kitboard Updates
 - ☐ Both AFE boards function as expected
 - ☐ Connected our AFE board to the pulse ox clip from the AFE development board and was able to get readings as well as lights flashing
 - ☐ Will use this to see what kind of measurements we are getting and what to set as our register values within the AFE
- ☐ Questions for Professor Schafer
 - ☐ Should we include the charging circuit and voltage regulation circuits from the fall?
 - ☐ Going under recommended current values for the LEDs as provided by supplier. Is that bad?
 - ☐ Is there an efficient way test the surface mount LEDs/Photodiodes?
 - ☐ Can we get Eclipse on the desktop at station? (need admin rights to install)

Timeline of Tasks:

- ☐ Have working Bluetooth connection 2/22/19
- ☐ Resolve remaining issues with AFE 3/1/19
- ☐ Have working diodes and photodetector 3/6/19
- ☐ Have MATLAB and bluetooth connections working together 3/22/19
- ☐ Have diodes and AFE board working together 3/22/19
- ☐ Refine MATLAB program with testing with diode 3/27/19
- ☐ Have completed Bill of Material 3/27/19