

Day 5 Requirements 3

Monday, July 17, 2023 5:04 PM

Goals:

- Continue with the Requirement Spec document and RTM
- Continue researching cutoff values w/ Diego
- Continue developing the app and Arduino code
 - Work mostly on DAQ code (if the parts arrive)
- See missing items to consider purchasing
 - Small Breadboard so far
- Schematic for Arduino/Solder header pins w/ Eunice
 - Arduino RTC: <https://lastminuteengineers.com/ds1307-rtc-arduino-tutorial/>
 - Arduino nano SD: <https://lastminuteengineers.com/arduino-micro-sd-card-module-tutorial/>

Bruh the sensor still didn't come in. Worked on the Arduino BLE code and sort of works at the moment. Arduino header pins are soldered by Eunice, she is holding onto the parts for now.

Accomplishments:

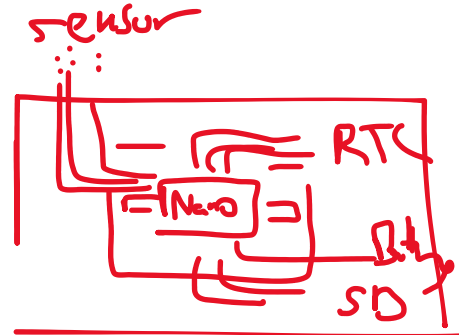
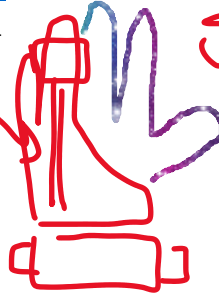
- List of items sent out (Glove, Velcro, and tape)
- All Software requirements finished
- Preliminary Arduino BLE code is working
- Group GitHub shared (easier code review)

Work on sharing my work with the group more often and divide the work up a bit more (Front end design can be given to someone else to work with).

New Software Expectations:

Arduino DAQ: end of next week (concurrent development with the BLE code)
File transfer (BLE?): end of next week
App final touches: end of week after

2 finger → sewing glove



Day 6 Requirements 4

Tuesday, July 18, 2023 10:39 PM

Goals:

- Look over software requirements
- Finalize RTM for software needs and requirements
- Aid in other sections of the requirements docs
- Continue preliminary code testing
 - If the sensor comes in, start writing DAQ code (see day 4)
 - Else, continue developing the BLE data transfer protocol and start designing the App interface
- Continue working on the schematics with Eunice (Note the modules do come upright, a problem we need to discuss).
 - Arduino RTC: <https://lastminuteengineers.com/ds1307-rtc-arduino-tutorial/>
 - Arduino nano micro SD: <https://lastminuteengineers.com/arduino-micro-sd-card-module-tutorial/>
 - Pulse sensor: <https://lastminuteengineers.com/pulse-sensor-arduino-tutorial/>
- Develop significance criteria for HRV readings
 - Relative or Absolute thresholds by default?