



BITNG LAB UPDATE

Carl Demolder

Date 4/15/2021

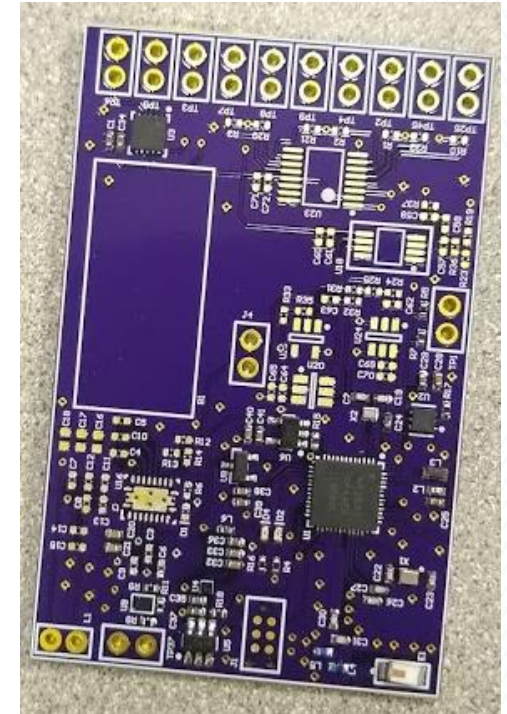
Progress from last week

- Shriner's project
 - Firmware
 - Literature review
 - Strain sensor
- Low Power ECG
 - Debugging

SHRINER'S PROJECT

Firmware/Software Development

- Strain Sensor firmware (3/29 – 4/15)
 - ADG728: Finished
 - DAC5571: Finished
 - ADS1100: TO-DO
- Sensor Glove GUI (4/15 – 4/30)
 - Python
 - BLE dongle



Literature review

- Editing literature review
 - Finished summary figure
 - Alicia present tomorrow's meeting
 - Added citations from Alicia
 - **Need to edit figure references**
 - Review ready for Friday's meeting

LOW POWER ECG

Low Power ECG

Debugging Problems:

~~1. Random Disconnection~~

- ~~1. Fixed – Logging was stalling processor~~

2. Wireless Charging Coil

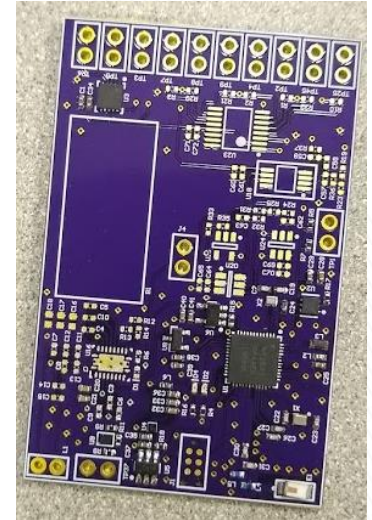
- 1. In Progress – Implemented smaller antenna to operate at higher frequency

~~3. ECG Noise~~

- ~~1. Fixed – Calibration setting was enabled~~

4. BLE Antenna RSSI

- 1. Lowest priority



PATH FORWARD

Path forward (4/12/21 – 4/19/21)

- Shriner's Project:
 - Strain gauge, round #10
 - Firmware development
 - Literature review update
- LP-ECG:
 - Support for Shinjae/Bu

APPENDIX