



# BITNG LAB UPDATE

Carl Demolder

Date 4/06/2021

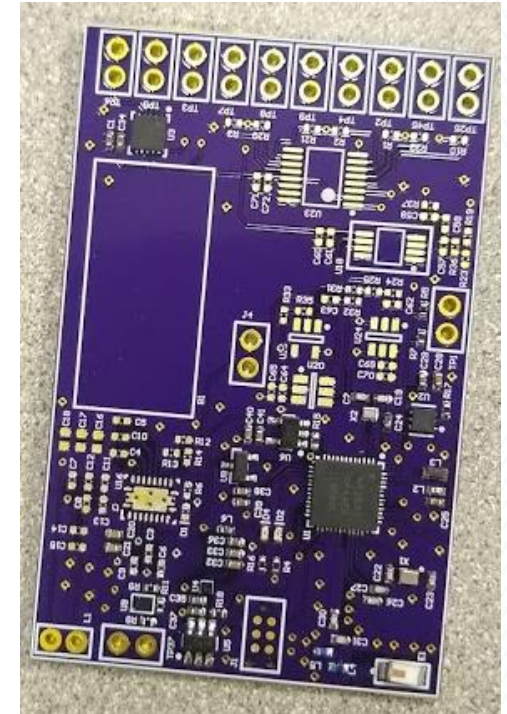
# Progress from last week

- 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: TO-DO
  - ADS1100: TO-DO
- Sensor Glove GUI (4/15 – 4/30)
  - Python
  - BLE dongle

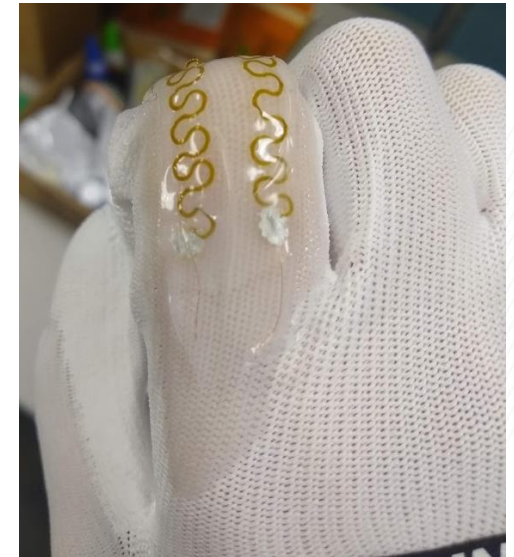


# Literature review

- Editing literature review
  - Working on new summary figure
  - Going to add citations and sources from Alicia

# Strain Sensor #9

- New pattern
  - Does not rip when finger bending
  - Serpentine pattern is too close together
    - need to increase spacing
    - PI layers occasionally stick together
  - AgNW layer didn't print properly
    - No connectivity

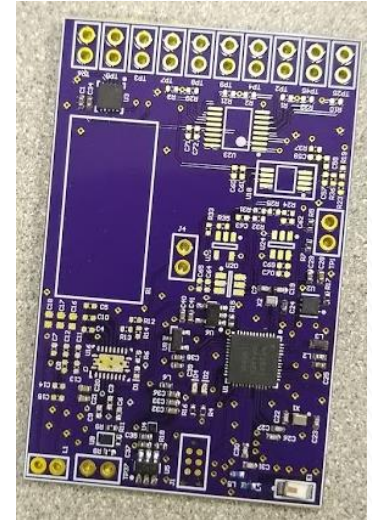


# LOW POWER ECG



# Low Power ECG

- Moving forward:
  - Debugging long term testing
  - Ongoing development





# PATH FORWARD

# Path forward (4/06/21 – 4/12/21)

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

# APPENDIX