



BITNG PROJECT UPDATE

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Date 10/22/2020

Outline

- Progress to date
- Shriner's project
- Schedule
 - Gantt Chart update
- Path forward

PROGRESS TO DATE

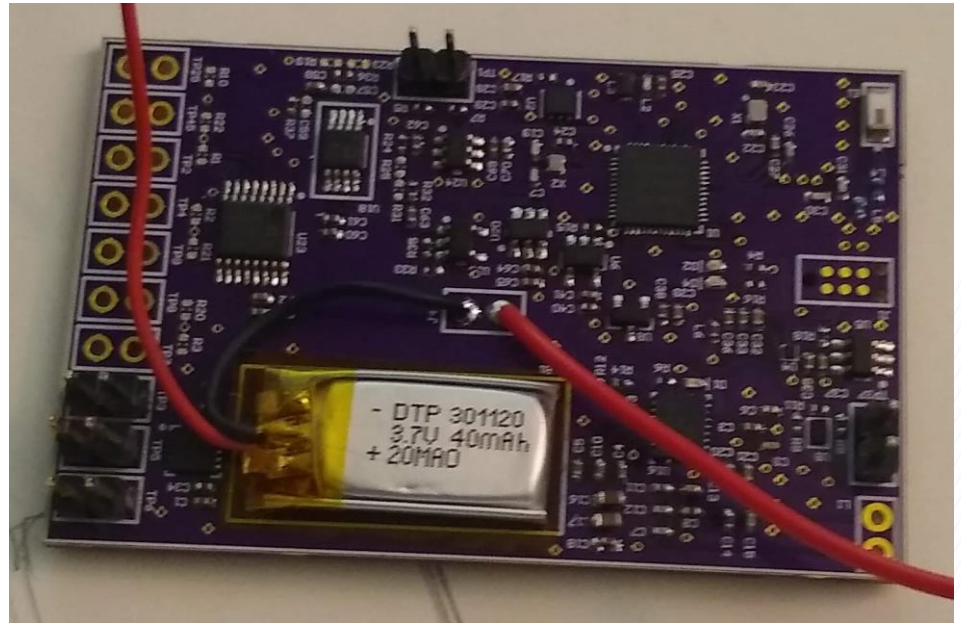
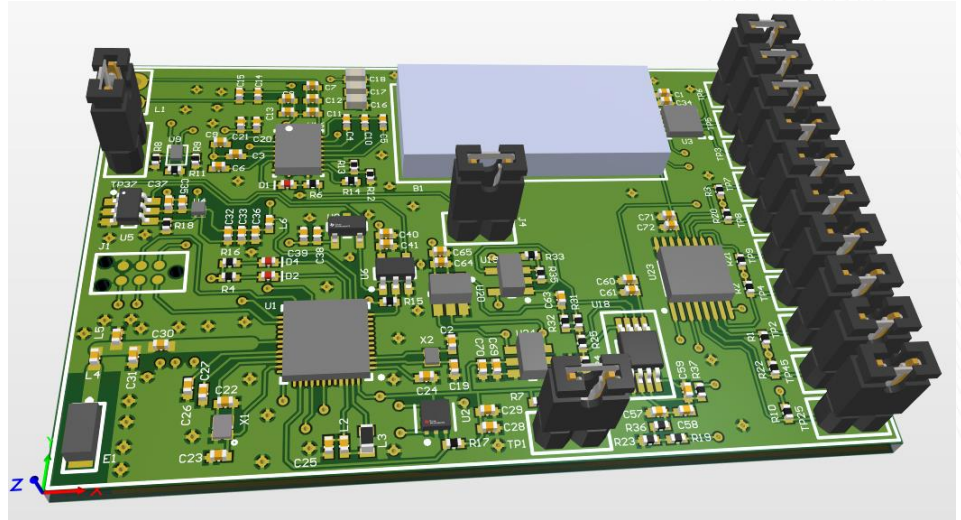
Progress from last week

- Pediatric wearable
 - Literature review [INITIAL TABLES]
 - IRB proposal [INITIAL DRAFT]

SHRINER'S PROJECT

PCB design

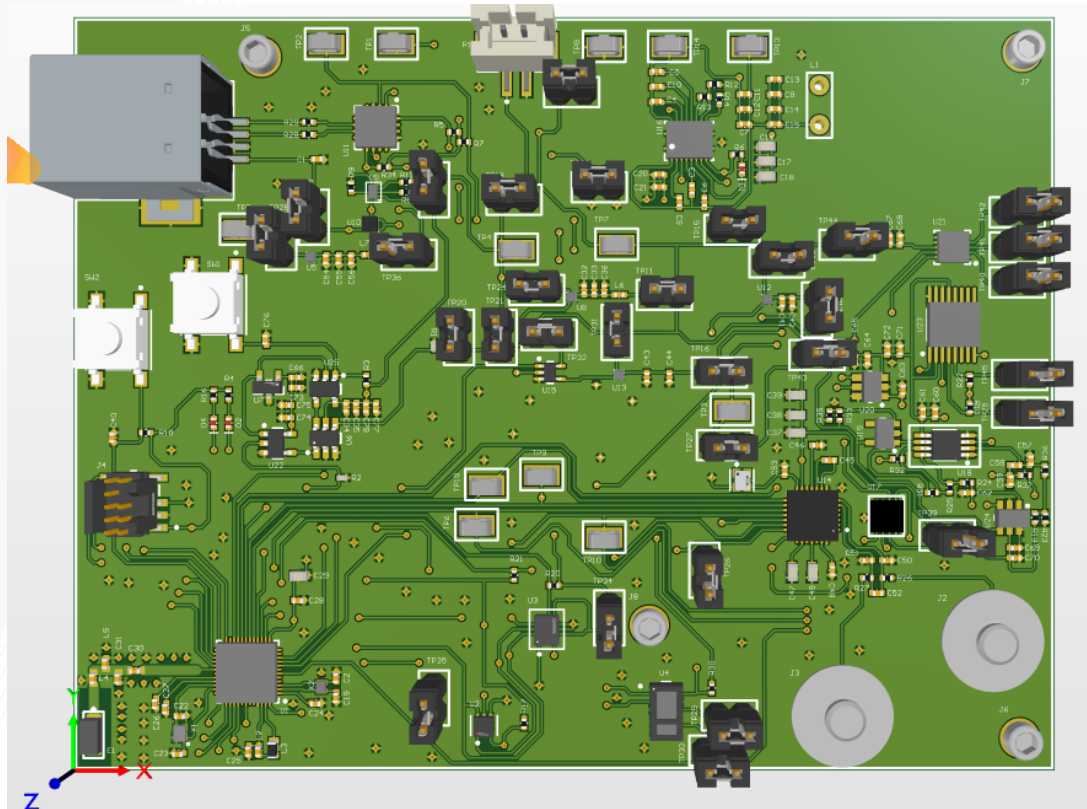
- PCB: Arrived
- Stencil: Arrived
- Digikey: Arrived
- Assembly: Complete
- Hardware Debug: TO DO
- Programming Check: TO DO



LP ECG PROJECT

PCB design

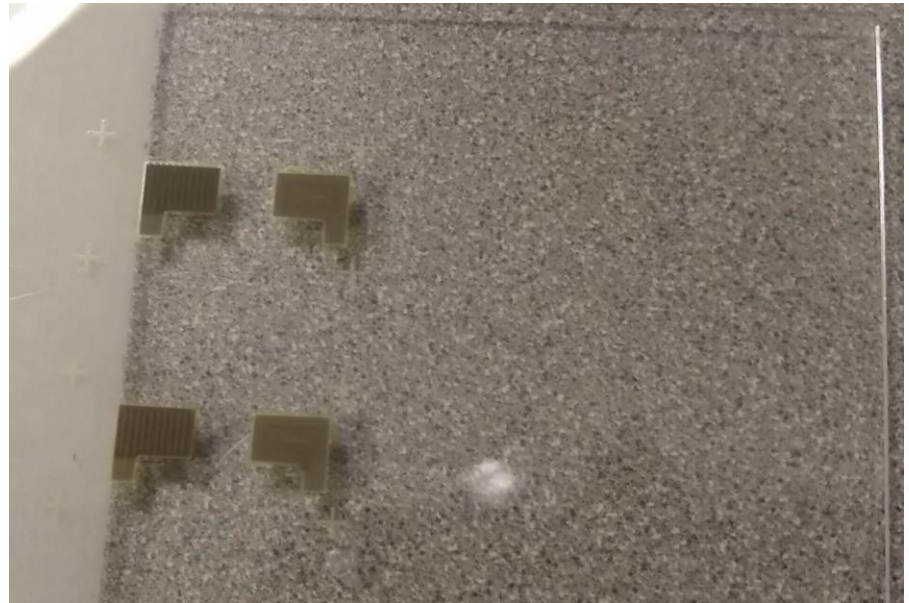
- PCB: Ordered
- Stencil: Arrived
- Digikey: Shipped



CAPACITANCE SENSOR

Capacitance sensor

- PDMA: Finished
- PI: Finished
- AG: Finished
- PDMS: Finished
- ASSEMBLY: TO DO
- ENCAPSULATION: TO DO



IRB PROPOSAL

IRB proposal

- Initial Draft:
 - IRB Protocol: 80% Complete
 - Final Questionnaire
 - Recruitment Flyer
 - Consent Form
 - COI Management Plan
 - Device Statement
 - Device Biocompatibility
 - Device Biocompatibility Reference Article
- Timeline:
 - Initial Draft sent to Dr. Yeo on Tuesday (10/13)

PATH FORWARD

Path forward (10/19/20 – 10/26/20)

- Pediatrics Wearable:
 - Literature review
 - Add more sources to tables
- PCB Assembly:
 - Wearable Sensor Glove
 - LP ECG
- Sensor Manufacturing:
 - Capacitance sensors (10X)

SCHEDULE

Schedule Gantt chart

Task	10/11-10/18	10/18-10/25	10/25-11/01	11/01-11/08	11/08-11/15	11/08-11/15	11/16-11/23
LOW POWER ECG							
-PCB ASSEMBLY		●					
-HARDWARE DEBUGGING		●					
-FIRMWARE DEVELOPMENT							
NEUROMOTOR PEDIATRIC WEARABLE							
-LITERATURE REVIEW	✕	●					
-PCB ASSEMBLY		●					
-HARDWARE DEBUGGING		●					
-FIRMWARE DEVELOPMENT							
-PRESSURE SENSOR MANUFACTURING		●					
-IRB PROPOSAL	✕						

LEGEND

- ✕ FINISHED
- TO-DO

APPENDIX