

Bio-Sensor Wearable Development Board

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Date 9/10/2020

Outline

- Schedule
 - Gantt Chart update
- Progress update
 - Current progress
 - Path forward



SCHEDULE



Schedule Gantt chart

Task	8/30- 9/6	9/6- 9/13	9/13- 9/20	9/20- 9/27	9/27- 10/4	10/4- 10/11	10/11- 10/18
DEVELOPMENT BOARD	*						
-HARDWARE DEBUGGING	*						
-FIRMWARE DEBUGGING	*						
NEUROMOTOR PEDIATRIC WEARABLE							
-LITERATURE REVIEW	*						
-DESIGN PROPOSAL							
-BLOCK DIAGRAM							
YEO GENERAL LAB							
-IEN TRAINING	*						
-LOW POWER ECG	*						





PROGRESS TO DATE



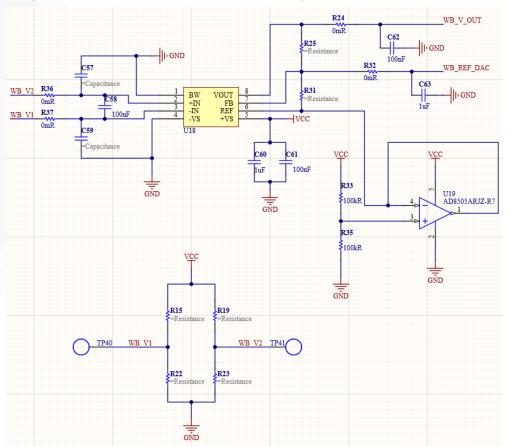
Progress from last week

- Firmware
 - DAQ Slave driver [IN PROGRESS]
- Hardware
 - Inductive charging [IN PROGRESS]
 - Trying to optimize coil size
 - RF wireless power harvesting
 - Waiting for ICs
- IEN training
 - Online lecture [FINISHED]
 - In person training with Robbie [FINISHED]
- Pediatric Wearable
 - Literature review [IN PROGRESS]
 - Introductory meeting [IN PROGRESS]



Strain gauge circuitry

- Circuitry used for:
 - Read resistive strain gauges and pressure sensors
- Circuit design for Desai lab group





PATH FORWARD



Path forward (9/8/20 - 9/14/20)

- Hardware:
 - Wireless charging
 - Inductive charging: waiting for more samples
 - RF: waiting for samples
- Pediatrics Wearable:
 - Literature review
 - Initial draft and construction
 - Lab meeting to go pneumatic bladder construction
 - Block diagram
 - Design proposal
- IEN training:
 - Online assessment



APPENDIX

