

BITNG LAB UPDATE

Carl Demolder
Date 6/01/2021

Progress from last week

- Shriner's project
 - Literature review revisions
 - Laser cutter training
 - PCB redesign
- LP ECG
 - PCB redesign
- Chip socket programmer
 - Waiting for components



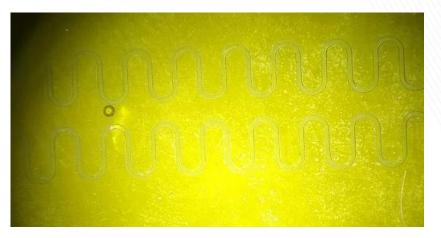
SHRINER'S PROJECT



Strain sensor



Strain Sensor



PI Stencil for Strain Sensor

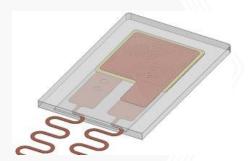


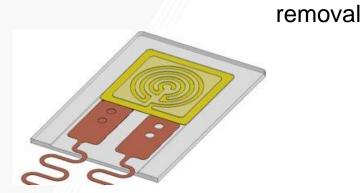
PI Stencil for Strain Sensor



Pressure sensor

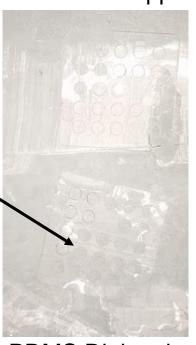








Copper Conductors



Hatch

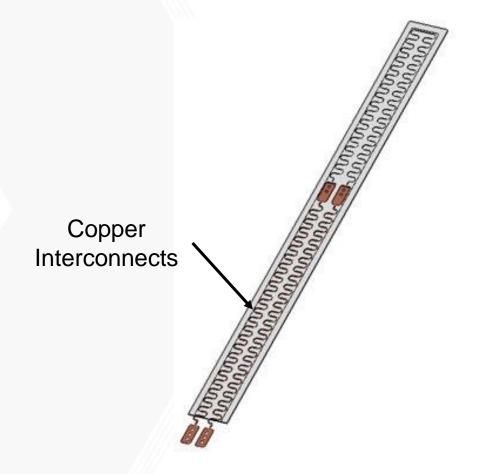
PDMS Dielectric



PI Insulator



Copper interconnects

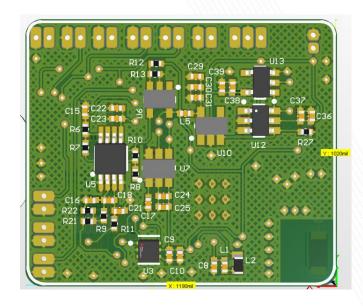


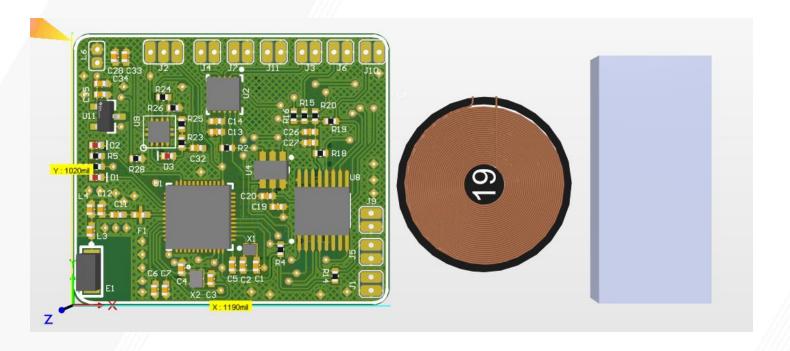




WSG PCB redesign

- Finished flex PCB redesign
- Going to submit for fulfillment





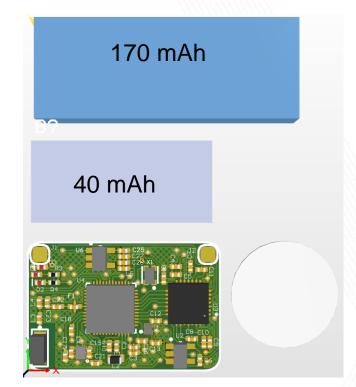


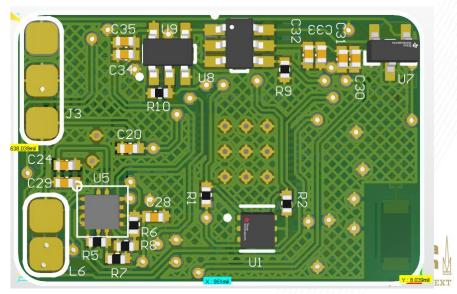
SHRINER'S PROJECT



LP-ECG PCB Redesign

- Dimensions
 - 0.95" x 0.64"
- Ground Plane = Cross hatch
 - More flexible PCB
 - Rounded corners
- More efficient LDOs
- Waiting to be ordered...

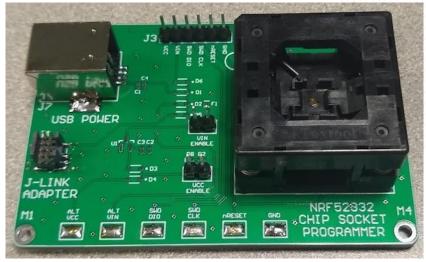




Chip Socket Programmer

- PCB: DELIVERED
- COMPONENTS: 6/01









CREATING THE NEXT

PATH FORWARD



Path forward (6/01/21 - 6/07/21)

- Shriner's Project:
 - Sensor fabrication:
 - Strain sensor
 - Pressure sensor
 - Sensor characterization:
 - Strain sensor
 - Pressure sensor



APPENDIX

