



BITNG LAB UPDATE

Carl Demolder

Date 2/04/2021

Outline

- Progress to date
- Path forward

PROGRESS TO DATE

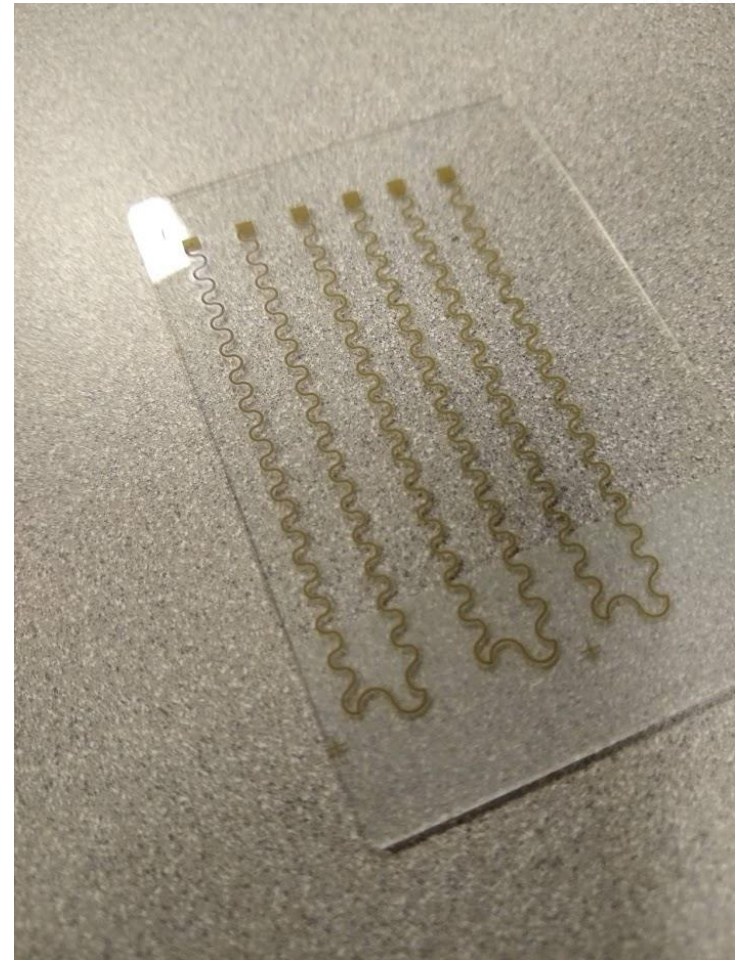
Progress from last week

- Shriner's project
 - Literature review
 - Strain gauge

SHRINER'S PROJECT

Strain Sensor: Round #5

- PDMA: Finished
 - PI: Finished
 - AG NW: Finished
 - Conductivity Test: FAILED
 - ~~PDMS: TO-DO~~
 - ~~ASSEMBLY: TO-DO~~
 - ~~ENCAPSULATION: TO-DO~~
 - ~~Characterization: TO-DO~~
 - Conclusion: Not enough nano-wires
 - Going to refresh nanowires in vial every 15 minutes
-
- Lab Session: Friday 2/5



Literature review

- ~~Captions to figures and Tables~~
- ~~Adding sources to EndNote X9~~
- Requesting permission to reuse image
 - Academic sources: 2/19 pending
 - Commercial sources: 5/15 pending
 - ~~DIY sources: Completed~~
- ~~Introduction~~
- Body Paragraphs
 - ~~Summary~~
 - ~~Applications~~
 - ~~Commercial~~
 - ~~DIY~~
 - ~~Academic Summary~~
 - Pressure-IN PROGRESS
 - Temperature-IN PROGRESS
 - Strain-IN PROGRESS
- ~~Conclusion~~

PATH FORWARD

Path forward (2/01/21 – 2/08/21)

- Shriner's Project:
 - Literature review
 - Strain gauge, round #5
- Firmware development
 - FDC1004 (4-Channel Capacitance-Digital Converter)
 - IN PROGRESS

APPENDIX