**sdmay20-39: Batteryless, Encapsulated Hydrometer**
Week 7 Report
January 13 - January 30

## Team Members
Jason Cheng  — *Technology Lead*
Zach Higgs  — *Project Lead*
Craig Philipp  — *Communication Lead*
Ben Colson  — *Test Lead*
Harel Cohen  — *Hardware lead*

## Summary of Progress this Report
We have so far been reviewing our progress from the past semester, and creating a timeline so that we can figure out what has to be done from this point forward to meet our goals and deliver a final product. Right now, we have a good starting point, since our circuit works and we have been able to use it to narrow down a final product. From this point forward, we will introduce two different testing boards, one with a new MOSFET driver that will help us be able to drive down rise time. The other board will have a smaller, but more universal footprint without the daughterboards to reduce noise and decrease extraneous connections and traces in the board. By doing parallel development, we can more quickly run through iterations, and better approach our solution with the intention of merging the tests into a final solution before our IRB.

## Pending Issues
Driver needs to be sourced and tested
MOSFET needs to be created as an Altium part
Testboard needs to be properly documented
Breadboard approach needs to be validated

## Plans for Upcoming Reporting Period
Create virtual and breadboarded solution for driver
Create Altium parts to create test boards

## Individual Contributions

| Team Member | Contribution | Weekly Hours | Total Hours |
|---|---|---|---|
| Jason Cheng | Created new gantt breakdown of coming semester. Helped plan out timeline and semester project, as well as introducing parallel development strategy. | 10 | 0 |
| Zach Higgs | Organize meetings and analyze schedules to find weekly meeting times. Scheduled work sessions and broke down tasks. | 10 | |
| Craig Philipp | Set up communications meetings with advisor | 10 | 0 |

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|---|---|---|---|
| | and team to better continue in this semester. Finished documentation and started this semester's files. | | |
| Ben Colson | Organize meetings and analyze schedules to find weekly meeting times. Scheduled work sessions and broke down tasks. | 10 | |
| Harel Cohen | Organize meetings and analyze schedules to find weekly meeting times. Scheduled work sessions and broke down tasks. | 10 | 0 |
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## Gitlab Activity Summary

Nothing to report.