# **Sensor Platform**

# PSU Capstone Project

# WPR

Last Week: 3/7 – 3/13

Next Week: 3/14 – 3/20

# Colten Nye

## Last week:

* Continued development of App. The app can now set a few sensor parameters, save multiple sensors, and edit previously saved sensors.
* Explored options for delivering parameters to the device. I am proposing a pattern of comma separated values that the app and device both agree upon.

## Next week:

* Finish GUI form layout for collecting sensor parameters.
* Decide how parameters will be passes to device.
* Decide how sensor drivers will be loaded to device.

## Issues:

* Delivering documentation is taking too long.
* Contention with teammate.

# Golriz Sedaghat

## Last week:

* Created the PCB boards for the main board and sensor boards
* Met with Andrew to get feedback regarding the boards and the changes that had been made to the schematics
* Based on Andrew’s feedback made changes to the boards

## Next week:

* Get the PCB’s signed-off by Andrew
* Send boards to fab
* Helping with writing and/or debugging code (based on what Steve and Colten want me to do)
* Working on the documents to submit an acceptable version to Dr. Zurk, before the end of the winter term

## Issues:

* Completing our documentation

# Steve Peirce

## Last week:

* Clarified another revision with Golriz and Professor Greenberg for board layout. Added USB TVS, P-Channel MOSFET for SD card reset.
* Decided on USART for serial comm via GUI.
* Finalized BOM after board revision meeting.
* Attempted to convince teammate to read documentation for the processor repeatedly.
* Attempted to clarify project goals and methodologies with teammate.
* Continued working on SDIO for data logging.
* Continued research on USART protocol for programming.

## Next week:

* Complete SDIO data-logging ability.
* Complete Accelerometer I2C library.
* Select VOC sensor.
* Order parts.
* Send board to OSHPark for fabrication.
* Continue working on USART comm protocol, (ideally, complete).
* Create test plan for hardware.
* Reassess job dispersion with temmates.
* Meet with team, Dr. Zurk and Professor Faust.

## Issues:

* SDIO incomplete
* USART serial incomplete
* Teammate refuses to read documentation.
* Teammate refuses to provide links, documentation or examples for decisions on design parameters.
* Board needs to sent to FAB.