Team 1 Open Source Air Quality Monitoring

Week 3: January 16th 2022 - January 23th 2022

Sponsor: Dr [David Burnett](mailto:dburnett@pdx.edu)

Advisor: Dr John Acken

Team Members: [Adam Dezay](mailto:adezay@pdx.edu), [Manuel Garcia](mailto:manga2@pdx.edu), [Brandon Hippe](mailto:bhippe@pdx.edu), Mercedes Newton

**Team Review:**

This week, we met with Dr. Burnett for the first time

* After our first class meeting and meeting with our industry advisor, our team has come to the following decisions
  + We must produce 3 prototypes, with a chance of producing the initially requested 10 due to funding.
  + We shall further research and discuss how frequently our sensors take in data as informed by power requirements.
  + Spreadsheet and protocol was established for obtaining equipment from both Dr. Burnett’s lab and the EPL.
  + Team established another meeting time and workshop time.
  + Team assigned Brandon as point person and Mercedes as leader.
  + Team created a discord for communication.
* Gantt chart was revised to be more informative.
* Using a CO2 vs ECO2 sensor is still being debated.
* Team assigned each member with a sensor to specialize in.
* Team finished rough draft of project proposal
* Team delegated tasks for the current week with emphasis on the research and planning.

**Individual Review**

Adam Dezay: Created and revised gantt chart during team meeting, began CO2 sensor research

Manuel Garcia: Continued Smart mesh and kicad research

Brandon Hippe: Finished python component power analysis script. Graphs and text outputs are available on github. Started basic tests on viability of custom ultrasonic anemometer, will continue and develop final anemometer pending results.

Mercedes Newton: Reached out to faculty about HVAC system used at PSU, began PM sensor research. Organized team trello/documentation.