Notes - 10/17

- It would be cool to collect the total amount of CO2 collected every time the machine runs
- Objective: create a “calibration machine” for the inflow and outflow of the machine so that we can get the best reading without disrupting the airflow or damaging the sensor with continuous exposure to high heat
- Connect all the data to a website, make a graph, etc.
- Model everything on a digital logic software

For sunday studies

- connect the different sensors to an arduino and the software and read the data

How to connect arduino data to a website:
https://www.circuitbasics.com/how-to-set-up-a-web-server-using-arduino-and-esp8266-01/

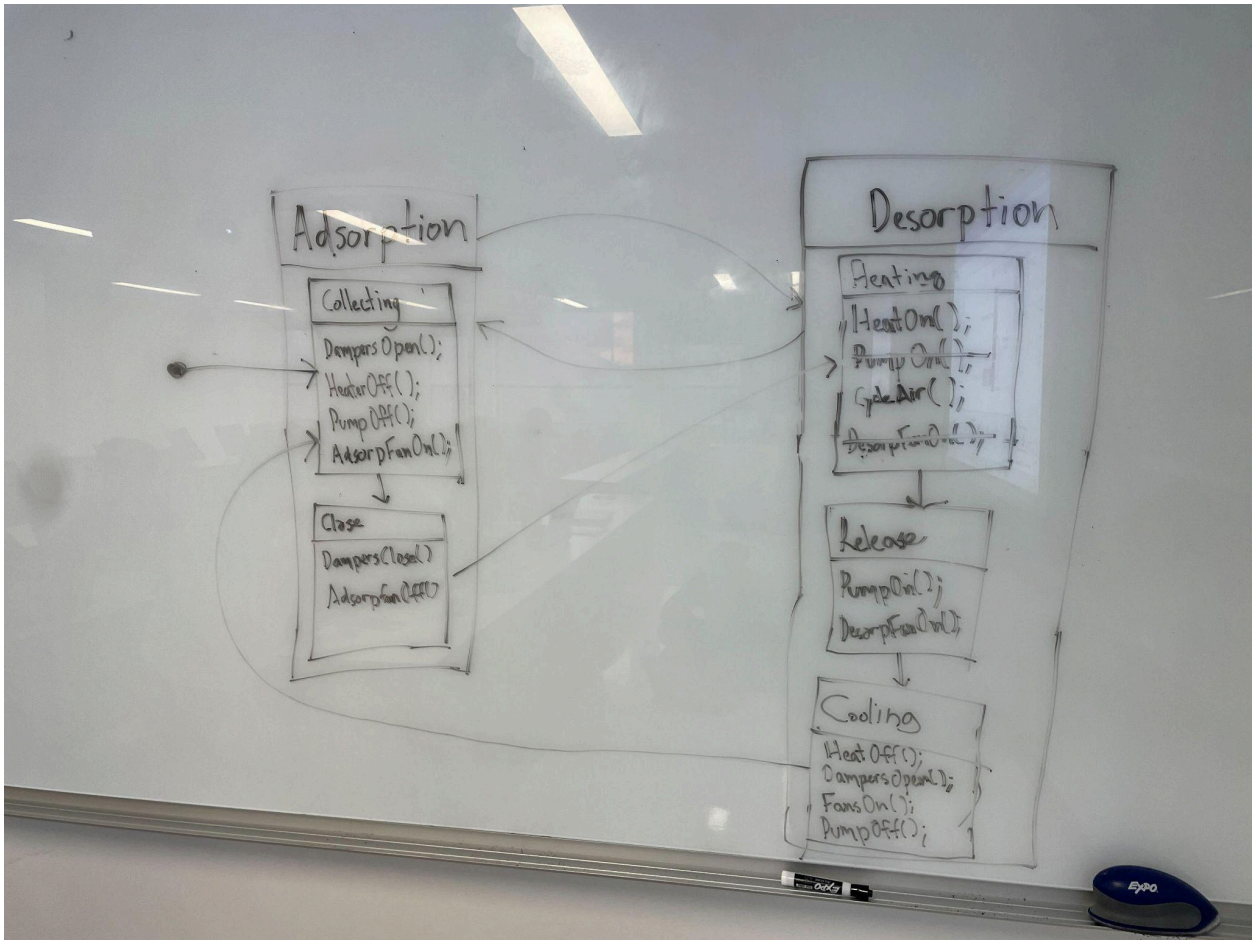
Possible parts to order

Sensors

For the better sensor that goes on the inside
https://sensirion.com/products/sensor-evaluation/
https://sensirion.com/products/sensor-evaluation/control-center - working on downloading this, it might be able to show us all the data graphically

Pinout diagram for CO2/temp/humidity sensor that goes on the outsides
https://learn.adafruit.com/adafruit-scd30/pinouts

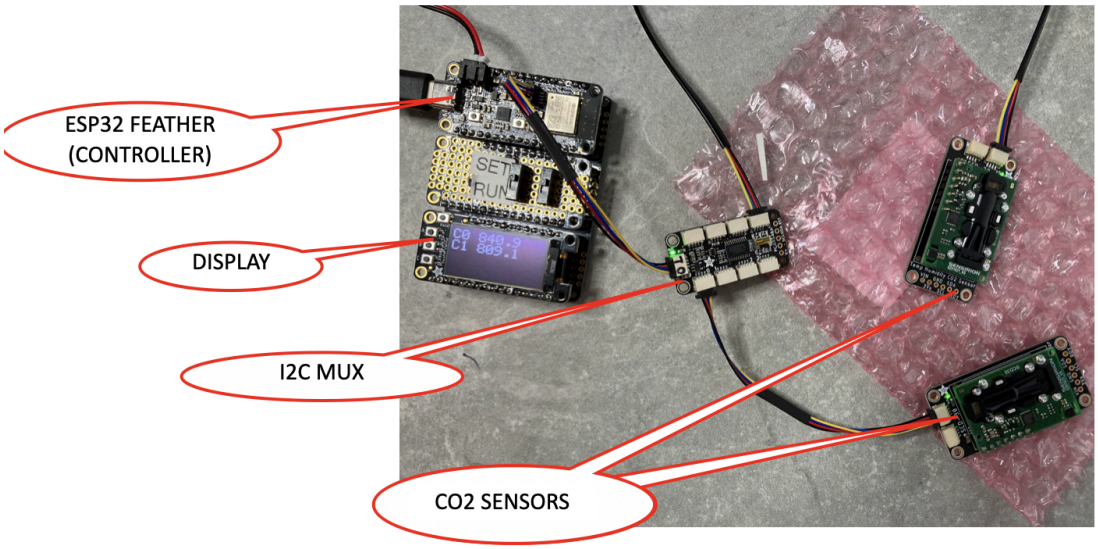
Machine State Diagram



Epiphyte Electronics

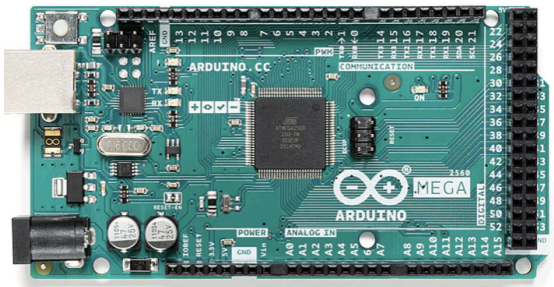
Company

Epiphyte Electronics (Partial)



ELECTRICAL PARTS

Controller: Arduino MEGA



Sensors:

- Low-pressure
- High-pressure
- Temperature
- CO2 concentration
- Accelerometer