

# Project Code

#### Arduino sketch

Recorded several data points from MKR boards including temperature, altitude, location, and more

### Jupyter notebook

Used to process the recorded data points from CSV to a human-readable visualization

### Resource files

List of resources used and files to be able to reproduce the project along with useful research



## Materials List

Arduino MKR WIFI 1010

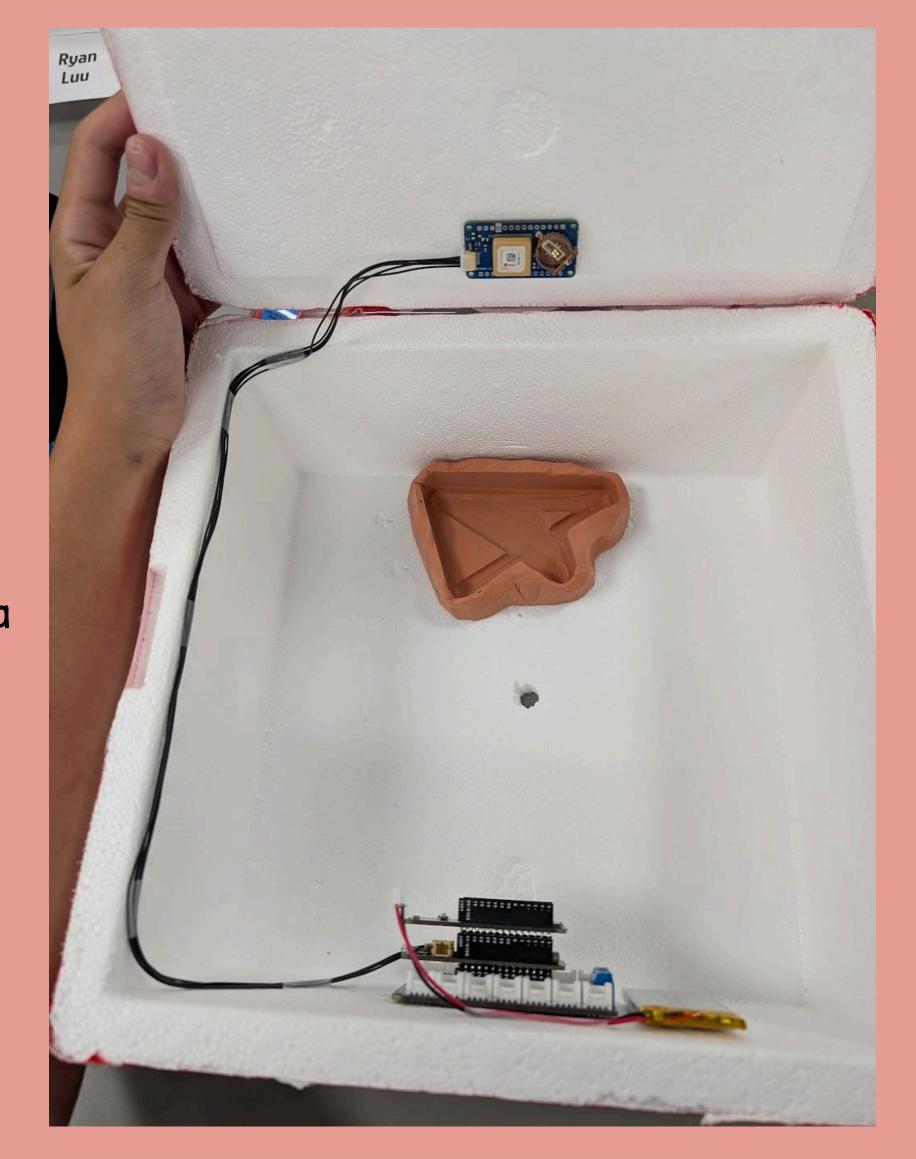
Manages calculations and communications

ARDUINO MKR Enviromental Shield rev2

Provides environmental sensors to measure temperature, humidity, light/UV levels, and pressure

Arduino MKR GPS Shield

Provides exact coordinates (latitude and longitude) as well as altitude data



## Contributors

### Ryan Luu

- Primary programmer for Arduino and data analysis
- Created and documented project in GitHub
- Lead for team members and organized tasks and materials

### Chioma Ononuju

- Secondary programmer for Arduino and data analysis
- Researched information about pressure/temperature's affects on liquids
- Created the special higher-density
  Koolaid mixture

#### Armaan Bal

- Learned Fritzing and created some circuitry models
- Researched and applied pressure/ temperature equations with PVnRT and Clausius Clapeyron
- Created a mold based on the APEX master mold and sealed it

