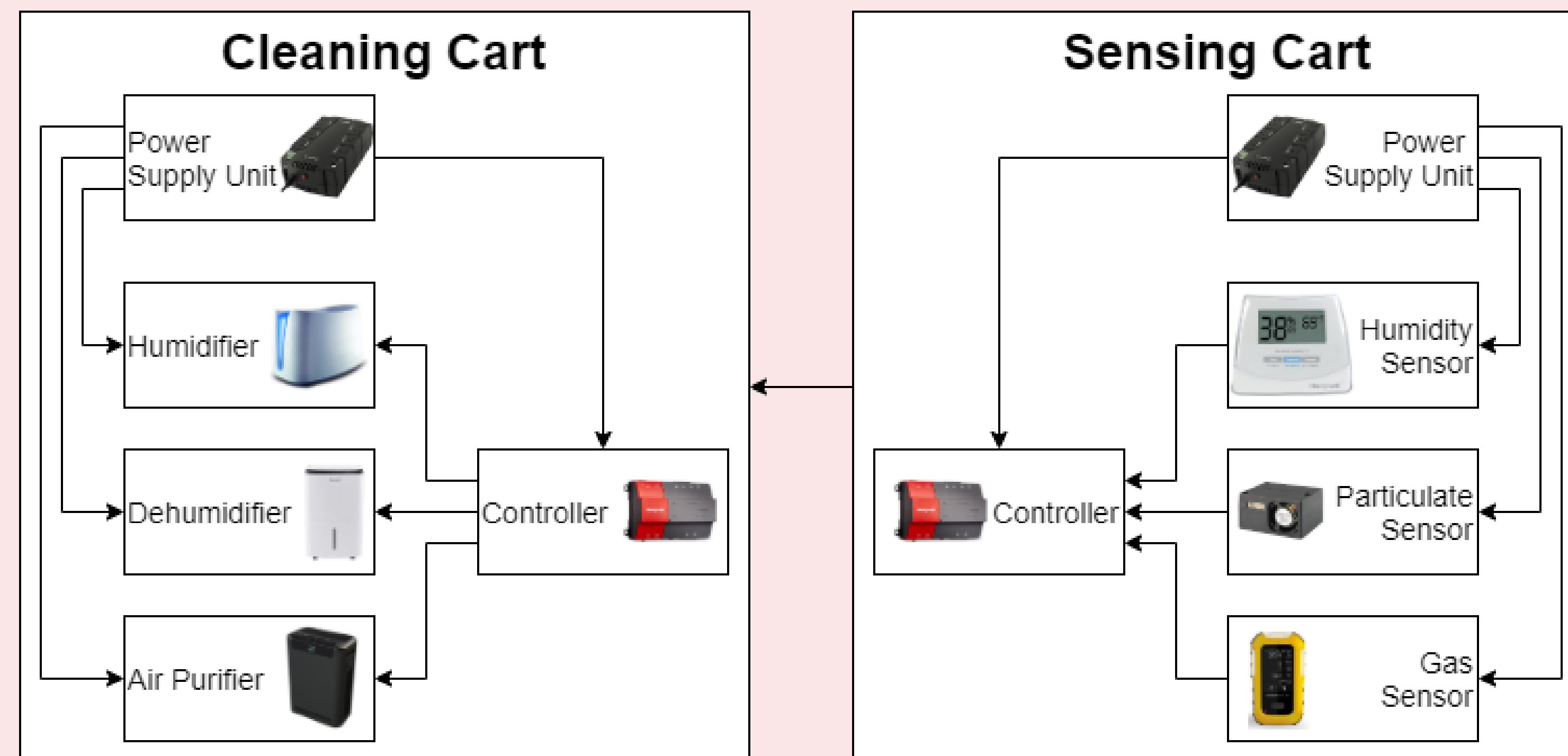


Objective

The goal of this project is to improve air quality in the FAMU-FSU College of Engineering. This is motivated by the ongoing COVID-19 pandemic.

Connection Diagram

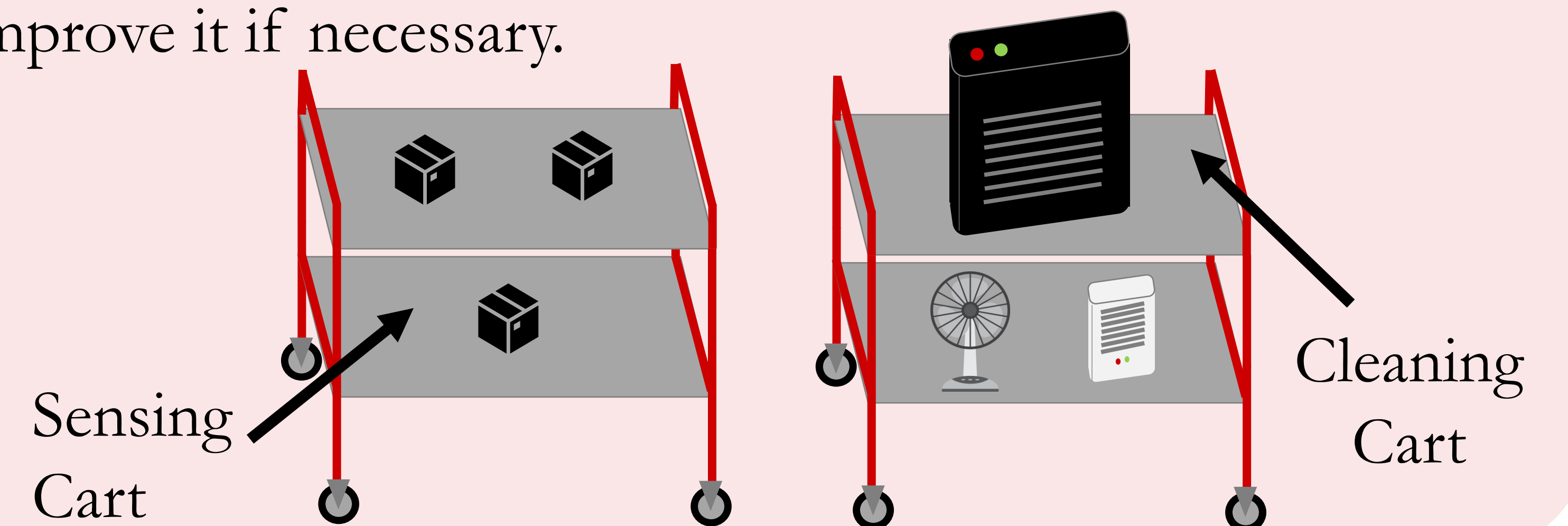


Customer needs

- Device Monitors air quality
- Reduces contamination while increasing ventilation
- Device is easily transportable
- Size of device does not hinder surrounding spaces
- Low heat emission from device
- Internal power source is preferred

Final Design

Dual sensing and cleaning carts to measure air quality and improve it if necessary.



Future Work

Program
Microcontroller

Order
Hardware

Assemble
Device

Design
Validation
Tests

Perform
Tests

Data
Analysis