

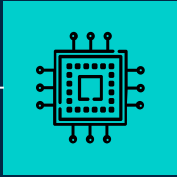


# CSCI 3081W

## Final Project

Nate Stearley   Ryan Hill  
Caleb Otto   Sean O'Neill

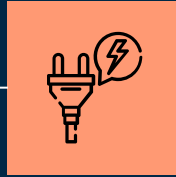
# Added Features



01

## ELECTRIC DRONES

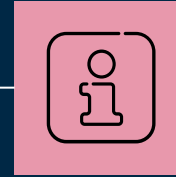
Each drone is now equipped with a battery that drains during flight



02

## RECHARGE STATIONS

Multiple stations around the map where drones can recharge



03

## DATA COLLECTION

Data on drone travel time, travel distance, and battery level is collected

# Why Are These New Features Important?

- Improved realism
  - More accurate data predictions
- Easier to understand and manage
  - Having data collected and stored means that conclusions can be drawn after the fact

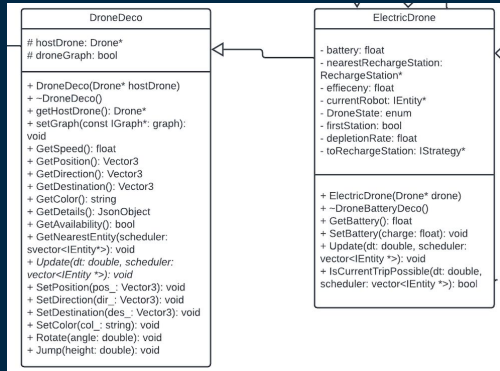


# Which Design Patterns Were Used?

We implemented two different design patterns for these two main additions

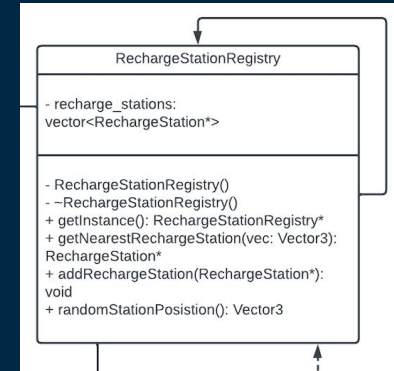
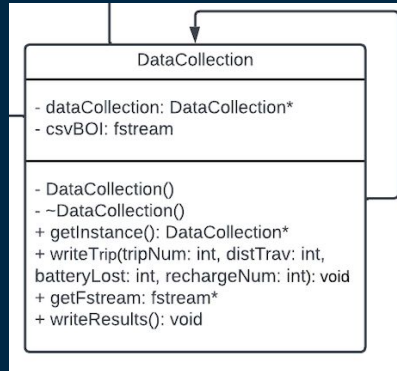
## Decorator Pattern

- Flexibility
- Reusability
- Open-Closed Principle



## Singleton Pattern

- Global Accessibility
- Easy Configuration



# Demo

