Meeting Notes for 1/19/22



In attendance: Elijah, Naimah, Dillon, John-Patrick

Notes: Started at 4:11 pm. Main purpose for meeting is to refine backlog, plan out schedule, and work on product vision.

What we think we don’t need to work on: Object measurement, ground control, and different environment

What tasks we need to work on (tasks in the backlog):

* Pathing
  + Re-routing
  + Path re-calculation
  + Show path in Airsim environment
* Object Detection
  + Utilizing Lidar?
    - Might be an issue depending on how we implement this – too intensive on the system
  + Measurement distance
  + Obstacle searching
  + NO Identification at the moment
  + Overlapping Sensor Arcs
  + Output: Object Distance and Perimeter
* Two types of Collison Avoidance – Stationary and Moving objects.
  + Stationary
    - Stand Off Distance
    - Reroute Path
  + Moving
    - Kinematics
    - Reroute Path
  + Output: Heading, Direction, and Velocity

Elijah is also adding things that he must work on with his code into the backlog

Object Detection will very likely tie with Collision Avoidance

Questions to ask Akbas: Are we to assume that the drones are static?, I.E Drones have no issues during flight

Are you assuming that for collision avoidance, is the object intentionally coming for us or is it just on a set path not intentionally trying to get us?

Assume that any moving objects are going a specific speed

Naimah left at 5:33 pm

Research:



Collision Avoidance

Pathing

Lidar Behavior



Object Detection

Lidar Output



How to change properties during Execution?



Lidar