

## Weekly Report #11

- 1.) Over the past week the team met 4 different times to work on setting up the 360 lidar software, create a 3D printed mount for the lidar and prop guards, and program the drones so that they can swarm together. We successfully programmed the lidar and made a custom mount to attach it to the drone. Once we place the lidar and prop guards onto the drone, it will be capable of flying indoors autonomously. We took the drones to an airfield on Saturday, April 15th, and flew them in a swarm alongside the autonomous fixed-wing drone team. The drones performed well and had no issues. We also completed the Engineering Expo Poster Board as well.
- 2.) The team anticipates programming the other lidar and mounting it to the second drone so that we can perform our swarm capabilities indoors. We will also begin working on our final presentation and possibly prepare for an indoor flight demonstration during the presentation.
- 3.) In the past week, we did not meet with our advisor but did continue to work and meet with Rob.
- 4.) The website ([http://dasp.mem.odu.edu/~swarm\\_sp23/index.html](http://dasp.mem.odu.edu/~swarm_sp23/index.html))
- 5.) Each team member has spent around 2 hours on the project for about 4 days this week to total around each team member spending 8 hours on our project this week.
- 6.) Daley Goff and Logan Johnson