

**Project:** Group #19 | Raspberry pi / Drones

**Problem Sponsor:** Company/agency and contact point

**Meeting Date:** 2023-09-15 / 4:40 PM

**Group Members present:** Carlo Leiva, Aleysha Santiago

**Group Members absent:** Rayan Rabbi, Colton Rohan

**Other attendees:** Sky Rueff/Vice president of TAC(Technology and Aerospace Club)/Drone expert

**Summary:**

Carlo and Aleysha meet before the TAC meeting at 5pm. We discussed asking questions to Sky Rueff who gave us advice for the drone we need to build. We talked about the flight controller, drone frame, propeller, and how to use the raspberry pi to control the drone. At 5pm we asked Sky which gave us the following advice.

- (1) So he mentioned that we use a flight control for the gyroscope part and use the raspberry pi as a receiver to send commands to make it fly up and down (thus possibly eliminating buying a controller and a receiver).
- (2) He mentioned a 3 inched propellor should be fine but not 3d printed(must be bought).
- (3) For the frame we can 3d print it or buy a carbon one for 25\$ on Amazon which he suggested but he is not against 3d printing it.
- (4) For the battery I'm asking him again but he mentioned a 6s cell battery because it will have more voltage helping with lift

**Alternatively** we can use the raspberry pi directly to the esc's and we can use strings to make the drone go up and down Only ;however, wouldn't be as stable but it would work to a degree.

**Action Items:**

- Aleysha and Carlo discussed problems and questions to present to Sky.
- Aleysha and Carlo planned to meet Perrey for parts such as a raspberry pico
- We asked questions to Sky Rueff for advice on how to build the drone.
- Carlo was tasked to do the team meeting report.