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

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

**Meeting Date:** 2023-09-21 / 7:00 PM – 12:30 AM

**Group Members present**: Carlo Leiva, Colton Rohan, Rayan Rabbi, Aleysha Santiago

**Group Members absent**: All members were here.

**Next Meeting: Undecided**

**Summary:**

We met up as a group off campus to combine all the pieces of the drone together and record the video of the project demo. There was an issue with the original body we were going to use so decided to ditch that prebuilt body and 3D print a body that would better fit our needs. After that body was complete, we mounted all four of our motors onto the new body. Once mounter we realized that our motors did not have the correct connections on the end of them to connect to the ESC modules we have, we did notice that the test motors did have the right connection, so we decided to cut the wires from the test motors and solider them to the other motors. That method worked and we were able to connect the flight motors to the ESC via the connection we created. Once we had all four motors working and running, we continued to assemble the rest of the build onto the drone body. This is the first time we have had all four motors mounted on the body and running at the same time.

Game Plan:

* 1 raspberry pi Pico, use a flight software, 4 ESC modules, 1 lightweight battery, quad propellor, receiver, transmitter, gyroscope, custom 3D printed drone body.
* Instead of laser cutting a body we will be using a 3D printed body.
* We decided to stick with the ESC controllers we already have and to solider the wires from the flight motors to the correct connection pins.
* All four motors are mounted on the body and the rest of the build is in assembly.
* Use the code we created to start the motors and achieve flight.

**Action Items:**

* **The drone is fully build with all the electronics zip tied in place**
* **The fight software has successfully been loaded onto the raspberry PI.**
* **The raspberry pi has the correct IDE that we will use to code the software onto the device.**
* **We are going to be using Thonny IDE for programming the device.**
* **All four motors ran at the same time with the propellers installed.**
* **We will record a video demo of the project working in action.**