

**sdmay19-43: UAV Assisted Energy Delivery**

Week 6 Report

October 14 - October 20

**Team Members**Kevin Angeliu — *Chief Engineer - Communications*Garth Flaming — *Facilitator*Alexandra Lowry — *Report Manager*Kaitlyn Maass — *Meeting Scribe*Brendan Rohlik — *Head of Timeline*Connor Wehr — *Facilitator***Summary of Progress this Report**

Ordered cords for connection to drone, as well as battery pack for energy transfer. Started learning how to flash to drone, writing basic code for startup, take-off, and landing. Looked into DroneKit example code, using simulations since we cannot connect to drone yet. Researched ways to connect payload battery to landing station for energy transfer.

**Pending Issues**

We were unable to find the cords that the previous group used to connect to the drone, so we had to order new ones. This means we cannot physically connect to the drone, so we cannot see what code the previous group left on the drone, and if we try to flash our own code, we will lose whatever is leftover.

**Plans for Upcoming Reporting Period**

If the cords arrive in time, we will be able to start going through code on the drone so that we can see what the previous group used for their final tests and demonstration, which is likely the code that was the most successful. Additionally, we still have to get everyone's Git issues fixed so that we can all push and pull properly.

**Individual Contributions**

Team Member	Contribution	Weekly Hours	Total Hours
Kevin Angeliu	Continued research in finding cord to connect payload battery to the landing station, started working on designing shape for plug, started preliminary research for image processing.	5	40
Garth Flaming	Found resources for dronekit API, wrote/aquired code for drone pre startup checks, startup, takeoff, and a short square flying procedure.	5	35
Alexandra Lowry	Looked more deeply into previous group's code, looking for what we can re-purpose for our own project. Practiced DroneKit examples	5	36

	using flight simulations on personal computer since we could not connect to drone yet. Looked through those examples' code for what to use in our project.		
Kaitlyn Maass	Watched YouTube videos on flashing the drone and beginning code. Also found some beginning code on Git. Attended all the meetings for our group. Found all the cords needed for connecting the drone and helped order them.	6	37
Brendan Rohlik	Looked into inventor. Researched Abdoullah's image processing. Looked at the battery we are ordering for reference and dimensions.	5	38
Connor Wehr	Ordered cords for drone connection and battery pack to test weight load of drone, Group meeting to discuss upcoming project plan assignment, still need to resolve Git issues.	6	33

**Gitlab Activity Summary**Nothing to report.

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