sdmay19-43: UAV Assisted Energy Delivery

Week 11 Report
January 27 - February 9

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

Fixed all remaining Git issues from last semester. Fixed drone issues, including not being able to SSH into drone after previously being able to (stemmed from corrupted packets). Worked on getting previous group's code to run on drone for testing purposes. Began writing tests for flying. Started looking into magnetic cords to order this semester. Developed groups for coding and non-coding requirements for this semester. Finalized meeting times with advisors. Met and started to integrate sophomore Jeffrey Richardson, introduced to us by Dr. Geiger.

Pending Issues

The drone only runs in simulation mode when using our code, but runs the system hardware when using the previous group's code.

Plans for Upcoming Reporting Period

Finish comparing previous group's code with ours to see what could be making our code only run in simulation mode. Continue working on fabricating landing pad. Continue research into requirements for switching modes, hovering, ports, and landing procedures.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Kevin Angeliu	Started writing tests, helped with carriage design and finalizing landing pad design.	14	81
Garth Flaming	Fixed drone SSH error, fixed drone packet corruption, fixed drone motor stop, port research, group planning.	9	77
Alexandra Lowry	Communicated with outside sources (Dr. Zambreno) about possible solutions for drone issues, helped fix SSH error, fixed issue with drone only running in simulation mode, compared previous group's code with our test	10	75

	code to see why our code only runs in simulation mode on drone. Began looking into hover requirements for drone.		
Kaitlyn Maass	Dedicated to the landing code team. Did research and read reports of other students or group that have done similar automated landing with drones. familiarized myself with code we looked at last semester.	10	75
Brendan Rohlik	Printed carriage, looked at some cords for the magnetic connection, landing pad design.	12	76
Connor Wehr	Finished researching precision movement and landing code, begun minimal coding, started looking into mode switching requirements.	16	75

Gitlab Activity Summary

Nothing to report.