

sdmay18-40: Drone-Assisted Energy Delivery

Week 9 Report

November 20 - November 26

Team Members

Ahmed Al-Hulayel — *Testing the wire connection and how well it works using the new magnets and the landing station*

Abdullah Al-Obaidi — *Testing the wire connection and how well it works using the new magnets and the landing station*

Drew Underwood — *Working with garret on accessing the drone's operating system*

Khalifa Aldhaheri — *Testing the wire connection and how well it works using the new magnets and the landing station*

Garrett Lies — *Working with drew on accessing the drone's operating system*

Summary of Progress this Report

We have received the design from etg and created the first prototype for the wire connection using the magnets. We have also finished the new operating system/bios/fgpa to drone.

Pending Issues

We are figuring out the magnetic connections, We just need to make sure the connections are correct and the magnets are placed correctly. We also need to complete the calibration process of them drone and flashing the drone.

Plans for Upcoming Reporting Period

Using the magnetic connection with the landing station design we received from etg and see if we run into issues with the design. Also, we are planning to run code for the drone to do simple things like flying and landing.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Ahmed Al-Hulayel	Abdullah, Khalifa, and I have cut couple USB wires and made two connections(voltage source and the receiver end). We have only tested it without putting glue in the design to make them stick with the design part.	5	45.5
Abdullah Al-Obaidi	Ahmed, Khalifa, and I have cut couple USB wires and made two connections(voltage source and the receiver end). We have only tested it without putting glue in the design to make them stick with the design part.	5	48
Drew Underwood	Operating system on Drone was flashed and	7	48

	updated to most recent release. Tampered with calibeation and initial setup to prime systems for our programmed instruction.		
Khalifa Aldhaheri	Abdullah, ahmed, and I have cut couple USB wires and made two connections(voltage source and the receiver end). We have only tested it without putting glue in the design to make them stick with the design part.	5	46
Garrett Lies	We flashed the drone to a new operating system, updated software, calibrated the flight controls, connected the drone to the schools internet, ran simple test programs using python-mavlibk and dronekit	8	56