EE 491 WEEKLY REPORT 10   **Date: 4/3/2017**

Group number: 1705

Project title: Drone Energy Delivery

Client &/Advisor: Geiger/Chen

Team Members &/Role: Dustin Reed: Communication   Justin Howe: Team Lead, Jeffery Schons, Chidike Ubani: Webmaster, Eric Himmelblau, Avanish Kuntla

o <u>**Weekly Summary**</u>

  We modularized parts of the common app to control the drone and aimed to incorporate these modules with 1-2 weeks.

o <u>**Past week accomplishments**</u>

·   Dustin Reed: Created the base of an app to work with DJI SDK, studied and figured out DJI SDK, planned app to create and run waypoint missions

·   Avanish Kuntla: Created an app that gets current location of drone and continuously displays phone's location.

·   Jeffery Schons: Worked on image processing with Open Cv

·   Justin Howe: Got the app working with the DJI SDK and authenticating through their servers, am able to connect to drone and give basic commands.

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o <u>**Individual contributions**</u>

<u>**NAME**</u>	<u>**Individual Contributions**</u>	<u>**Hours this week**</u>	<u>**HOURS cumulative**</u>
Dustin Reed	Created the base of an app to work with DJI SDK, studied and figured out DJI SDK, planned app to create and run waypoint missions	6	46
Avanish Kuntla	Created an app that gets current location of drone, continuously displays	6	44

	phone's location, Attended meetings, Studied mobile SDK		
Jeffery Schons	Worked on image processing and learned how to use OpenCV. Attended meetings. Bought materials and made the node	7	41
Chidike Ubani	Attended meetings. Got camera access using openCV for an android app	6	31
Justin Howe	Got comm app to authenticate and connect to drone somewhat reliably	8	44

o **Comments and extended discussion**

App is coming along. We have the start of a working prototype that allows communication with the SDK servers and the drone.

o **Plan for coming week**

· Dustin Reed: Create modular method for waypoint mission creation and execution

·   Avanish Kuntla: Clean up code on this week's app, continue studying mobile sdk documentation, and incorporate my code into common ap
·   Jeffery Schons: Continue work on image processing for the node shape
·   Chidike Ubani: Get C++ implementation to process image on the node
·   Justin Howe: Get all needed hooks implemented in the drone energy comm app.

o **Summary of weekly advisor meeting**

     We met and discussed individual contributions from the previous week. Our advisors were short on time this week, so we didn't get to talk about much else.

Grading criteria

Each weekly report is worth 10 points. Scores will be awarded as follows:

·   **8 – 10**: Progress for your project seems to be suitable. Documentation and hours reported by team members are adequate.

·   **6 – 8**: There is scope of improvement both in your report and your project progress. Can consult with instructor/TA after class for further inputs.

·   **< 6**: Please talk to instructors/TA after class hours about any difficulties that you/your team is facing.