Weekly report

An Nguyen

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1 Plan for this week

1.1 Research

- Get more flights with updated circuit
- Automate Praveen's script
- Study for FAA exam

2 Done this week

2.1 Research

We were not able to fly the net with the logger due to another EMI problem with the circuit. I've decided that Shriya should focus on making a suitable aluminum box to house the circuit. Mean while, Praveen is working on an optocoupler solution to separate the ground of the raspberry pi and the net.

I have been able to automate log scripts on a raspberry pi before. I have the scripts and circuits ready whenever praveen is done with the circuit.

I've asked Martin Reyna if we could fly in the field where they had the mosquito larvae bucket. One battery charge should be enough to fly that field. Right now, we'll strap a camera to the net to fly the field without a logging circuit, just an electrified net to get video of a mosquito being zapped.

Currently I'm studying the classifications of air spaces.

3 Plan for next week

3.1 Research

- Fly electrified net to get video.
- Help Praveen analyze the log
- Study for FAA exam. Resources include:
    - https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/media/remote_pilot_study_guide.pdf
    - https://www.faa.gov/training_testing/testing/test_questions/media/uag_sample_exam.pdf
    - https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/phak/

4 What Dr. Becker need to do

We need to think about what algorithm to include in this paper.