

Team Mahogany Weekly Status Report

Week of 10/30/17 (1)

Team

- Elyse Cooper, Kevin Dorosh, Ryan Stocking, Richard Preston

This Week

- Finished the project plan using feedback from Dean Panetta
- Met with Liz Settoducato for advice on the annotated bibliography
- Met with Marc Raila for input on the video project storyboard and script
- Met with Prof. Lasser to update on the current status of the project
- Created project proposal addendum with three potential UI wireframes
 - Feedback from Panetta has steered us toward design #2
- Targeted research into Google Maps API to begin determining scale of UI work

Next Week Task List

- Use risk assessment and minimal contingency plans to assess next steps
- Benchmark some hardware/software bottlenecks in lab setting
 - Reassess project plan using results
- Begin defining APIs for software/hardware interaction to accelerate development and testing
- Potentially: proof of concept for GPS and radiation circuit

Team Mahogany Weekly Status Report

Week of 10/30/17 (2)

Long Term

- Develop and modify timeline for the year
 - Specifically, begin to modularize the design process
 - Settle on an API for interacting between our hardware and software to accelerate development and testing
- Get proof-of-concept radiation and GPS circuit working

Critical Obstacles

- While understanding is coming into focus, we need to spend more time hashing out the details and settling on a design so we can begin iterating. In particular, determining bottlenecks and addressing them early is of utmost importance. It is also vital that we determine a communication protocol between the firmware and desktop UI, and test it in a lab setting.

Risks/Contingencies

- With a strong hardware/software interdependency, defining a usable communications interface early is vital to the timeliness of the project
- We need to research the difficulty of potential reach goals and use them to properly scope project
 - E.g., also incorporating our software into the Mission Planner interface