

# Team Mahogany Weekly Status Report

## *Week of 4/9/17 (1)*

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### Team

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

### This Week

- Worked to establish and rectify the issue with the SPI communication channel on the hardware side
- Tested the GPS system outdoors to determine coordinate validity
- Created poster for presentation
  - Incorporated feedback from both Prof. Lasser and CS in-class exercise
- Test system with production code
- GUI
  - Finalized simple image overlay on OpenStreetMap UI. GoPro doesn't have GPS cords so I need to patch the metadata, began implanting EXIF metadata manipulation code
  - Cleaned up repo's .gitignore and removed files that shouldn't have been checked in

### Next Week

- Finalize prototype for poster session
- Work on integrating the UI with the hardware → been relying on simulation so far
  - Banking on this being easy.. Going for some stretch goals in the next week first (radiation heatmap and data fusion)

# Team Mahogany Weekly Status Report

## *Week of 4/9/17 (2)*

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### Long Term

- Beyond long-term planning as semester's end nears

### Critical Obstacles

- The SPI communication is failing though we now have two options to rectify this issue
- GUI ant build is broken by addition of apache commons external jar to modify JPG EXIF metadata

### Risks/Contingencies

- We can try to mux/demux the SPI communication lines to control them ourselves
- We can try to have two separate Arduinos communicate serially to solve the issue
- Assuming that integration between the UI and hardware is easy could backfire/prove painful in the last couple days