# CprE 491 Weekly Report - Week 4

**Dates:** 9/22/15 - 9/28/15
**Group:** May1617
**Advisors:** Dr. Zambreno / Dr. Jones
**Client:** Matt Dresser (Vermeer Corporation)
**Members:** Brian Gillenwater, Nate Kent, Quinn Murphy, Bryce Poellet, Jon Schlueter
**Project Title:** Quadrotor Environment Mapping

## Weekly Summary

- Began discussion and planning of the overall system design.  Began the discussion of how to best make the design portable to other quadcopter platforms.
- Continued research into photogrammetry and the related software.

## Meeting Notes

**Friday 9/25/15 4:30pm - Client Meeting (All team members present)**
- Presented project plan
- photogrammetry update from nate
    - visual sfm - apply texture
    - nasa system - batch operating, no interface
    - topography accuracy is really important
- Discussion of Topography
    - on the side of a road, field, treeline. This will very.
    - up to 1 mile
- Dome spiral strategy of taking pictures
- Windows

**Monday 9/28/15 10am - Team Meeting (All team members present)**
- Discussion on PC mapping software, can we use google maps, will they have internet access
- Discussion of connection of android to pc
- Storyboarding the windows app

## Pending Issues

- Blocked by not having Phantom

# Plans for Next Week

- Nate & Jon: Keep looking into photogrammetry
- Quinn: Create Functional Block Diagram
- Brian: Private Website
- Storyboarding for Windows App
- Design Interfaces and Protocols for communications

# Individual Contributions

- Brian Gillenwater
  - Attended team meeting
  - Attended meeting with Matt
  - Project Plan
- Nate Kent
  - Attended team meeting
  - Attended meeting with Matt
  - Photogrammetry application comparisons
- Quinn Murphy
  - Attended advisor meeting
  - Attended meeting with Matt
  - Created System Diagram and State Diagram
- Bryce Poellet
  - Attended team meeting
  - Attended meeting with Matt
  - Project Plan Work
- Jon Schlueter
  - Attended team meeting
  - Attended meeting with Matt
  - Generated Functional Requirements

| Name | Hours this Week | Cumulative Hours | Role |
|------|------|------|------|
| Brian Gillenwater | 2 | 7.0 | Webmaster |
| Nate Kent | 3 | 7.0 | Productivity Officer |
| Quinn Murphy | 2.5 | 7.75 | Leader |
| Bryce Poellet | 2.0 | 8.0 | Communications |
| Jon Schlueter | 2 | 6.8 | Key Concepts |