
EE 492 Weekly Report (DEC15-19)

Week 5

Project Title: Efficient Measurement of Soil Microtopography to Aid the Verification of European Space Agency and NASA Satellite Observations of Soil Moisture

Advisors: Brian Hornbuckle, ISU Agronomy and ECpE; Josh Bertram, Collaborator Instructor

Client: Brian Hornbuckle, ISU Agronomy and ECpE

Members (roles): Brant Walsh (Key concept Holder, Team communication leader), Dillon McDowell (Team Webmaster), Yan Yao Chan (Team Leader)

Weekly Summary

Each group member completed their respective research tasks such as possible new embedded board, processing software and power sources for the system.

Meeting notes:

9/24 Group Meeting with Josh Bertram

Duration: 25 minutes

Members Present: All

Purpose and Goals: To discuss what each group member found that can be useful to the senior design project.

Achievements: The group discussed what each group member found respectively to the advisor and each group member is to submit what they found to the client as necessary.

Pending issues

Despite having choices of possible hardware, the group has not settled on a specific set of hardware to be ordered and implemented on the existing project design.

Plans for next week

To decide on which embedded board and which power source to be used for the project and to order the necessary parts to be implemented on the project design.

Individual Contributions for this week

Brant Walsh (1 hour 25 minutes) – Attended the meeting with one of the advisors. Researched on potential embedded boards to be used for the project.

Dillon McDowell (1 hour 10 minutes) – Attended the meeting with one of the advisors. Picked up the new hardware and tinkered with the software aspect for the design. Researched on the mono and possible MATLAB implementation.

Yan Yao Chan (1 hour 25 minutes) – Attended the meeting with one of the advisors. Researched on possible power sources for the project and completed the weekly report. Worked on the Gantt chart for the flow of the project.

Total contributions for the project

Brant Walsh (5 hours 55 minutes)

Dillon McDowell (5 hours 30 minutes)

Yan Yao Chan (7 hours 45 minutes)