
EE 492 Weekly Report (DEC15-19)

Week 15

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

The group continues to work on the simple switcher circuits and starts focusing on the project poster as well as the final presentation.

Meeting notes:

11/30 Group Meeting

Duration: 6 hours (Brant Walsh), 7 hours (Dillon McDowell), 5 hours (Yan Yao Chan)

Members Present: All

Purpose and Goals: To work on the power source for the device and the project poster.

Achievements: The group is about done with the project poster. It is also discovered that the power source, while providing enough power, needs some diagnostics and improvement.

12/1 Group Meeting

Duration: 3 hours (Brant Walsh), 1 hour (Dillon McDowell)

Members Present: Brant Walsh, Dillon McDowell

Purpose and Goals: To work on the power source for the hardware.

Achievements: The power source is further examined and improved.

12/3 Group Meeting with Advisor and Collaborator Instructor

Duration: 30 minutes

Members Present: All

Purpose and Goals: To discuss about the final presentation and project progress.

Achievements: The group is to continue working on the project as planned.

Pending issues

The simple switcher circuits still do not work as intended.

Plans for next week

To continue working on the simple switcher circuits and to start assembling the hardware and parts.

Individual Contributions for this week

Brant Walsh (9 hours 30 minutes) – Attended the meeting with the advisor and the collaborator instructor. Worked on the simple switcher circuits.

Dillon McDowell (8 hours 30 minutes) – Attended the meeting with the advisor and the collaborator instructor. Worked on the Kinect calibration and the project poster.

Yan Yao Chan (21 hours) – Attended the meeting with the advisor and the collaborator instructor. Worked on the simple switcher circuits and the project poster. Completed the weekly report.

Total contributions for the project

Brant Walsh (81 hours 30 minutes)

Dillon McDowell (66 hours 50 minutes)

Yan Yao Chan (79 hours 5 minutes)