EE 491 Weekly Report (DEC15-19)

Week 10

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

Advisor: Brian Hornbuckle   **Client:** Brian Hornbuckle, ISU Agronomy and ECpE

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

Weekly Summary

The group completed the second version of the project plan and made progress on resolving the hardware issue. The group also discussed about the presentation.

Meeting notes:

3/31 Group Meeting

Duration: 50 minutes

Members Present: All

Purpose and Goals: To discuss about setting up the hardware and the compatibility issues.

Achievements: The group discussed more about the presentation with the course instructor. The group also completed the worksheet on reflection on various aspect in engineering curriculum.

3/31 Group Meeting

Duration: 1 hour

Members Present: All

Purpose and Goals: To set up and configure the Kinect driver on Raspbian OS on the Raspberry Pi.

Achievements: The group did not manage to complete the configuration due to time constraints and the required meeting with Dr. Hornbuckle.

3/31 Group Meeting with Dr. Hornbuckle

Duration: 20 minutes

Members Present: All

Purpose and Goals: To report the group's progress on the senior design project to the advisor.

Achievements: The senior design progress is successfully delivered to the advisor.

3/31 Group Meeting

Duration: 2 hours 10 minutes

Members Present: Dillon McDowell, Yan Yao Chan

Purpose and Goals: To continue the effort in configuring the Kinect driver to interface with the Raspberry Pi.

Achievements: Despite having the instruction handy, the Kinect driver could not be installed in a timely manner. A group member was designated to complete the task during his personal time.

4/2 Group Meeting

Duration: 1 hour

Members Present: All

Purpose and Goals: To discuss about the issue regarding the Kinect driver on Raspberry Pi and to work on the second version of the project plan.

Achievements: The group completed the project plan and made progress on resolving the hardware issue.

Pending issues

The group is currently facing hardware complication and is working to get the issue resolved.

Plans for next week

Continue working on the senior design project and prepare for the presentation.

Individual Contributions for this week

Brant Walsh (6 hours 10 minutes) – Attended the weekly class session and group meeting. Configured the Kinect driver and Raspberry Pi. Completed the project plan. Attempted to configure the Kinect driver.

Dillon McDowell (6 hours 35 minutes) – Attended the weekly class session and group meeting. Configured the Kinect driver and Raspberry Pi. Completed the project plan.

Yan Yao Chan (8 hours 40 minutes) – Attended the weekly class session and group meeting. Configured the Kinect driver and Raspberry Pi. Completed the weekly report and the project plan.

Total contributions for the project

Brant Walsh (36 hours 20 minutes)

Dillon McDowell (28 hours 25 minutes)

Yan Yao Chan (30 hours 10 minutes)