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## EE 491 Weekly Report (DEC15-19)

### Week 4

**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)

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### Weekly Summary

In the fourth week, we met with our advisor to discuss about his expectation and specification regarding this project design.

### Meeting notes:

2/10 Group Meeting with Dr. Hornbuckle

**Duration:** 1 hour

**Members Present:** All

**Purpose and Goals:** To meet with our advisor and to discuss about working on the project specifications and design as well as the functionality.

**Achievements:** Our advisor talked us through his project expectation and how he would like to implement our design into his existing instrument.

2/12 Group Meeting

**Duration:** 2 hours

**Members Present:** All

**Purpose and Goals:** To have discussion on our future design and implementation of our knowledge and available hardware.

**Achievements:** We managed to come up with several ideas on how to implement relevant software and hardware to accomplish the task.

## **Pending issues**

Since none of us has any firm grasp of the knowledge, we would have to do more personal research on relevant topics. Other than that, we are still in the progress on the senior design website since it is part of the requirement of the senior design course.

## **Plans for next week**

To set up a senior design website before next week and to get more constructive feedback from our advisor regarding our design process.

## **Individual Contributions for this week**

Brant Walsh (3 hours)

Dillon McDowell (3 hours)

Yan Yao Chan (3 hours)

## **Total contributions for the project**

Brant Walsh (8 hour 10 minutes)

Dillon McDowell (8 hour 10 minutes)

Yan Yao Chan (8 hour 10 minutes)