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## EE 491 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

**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 fifth week, we met with our advisor to discuss about our findings and to get his personal perspective on our choice of development hardware.

### Meeting notes:

2/17 Group Meeting

**Duration:** 1 hour 50 minutes

**Members Present:** All

**Purpose and Goals:** To talk to our course instructor about meeting with our advisor.

**Achievements:** We managed to set up more meeting time with our advisor and gain a better view and grasp on the senior design project as a whole.

2/17 Group Meeting with Dr. Hornbuckle

**Duration:** 1 hour

**Members Present:** All

**Purpose and Goals:** To ask our advisor for his opinion on our ideas to ensure that our idea would collaborate and work with his existing hardware design.

**Achievements:** Our advisor talked us through his existing hardware in details and by the end of the meeting we managed to come up with more ideas that can be significant in this project.

2/19 Group Meeting

**Duration:** 1 hour

**Members Present:** All

**Purpose and Goals:** To work on the Project Plan Version 1

**Achievements:** We managed to complete a write up for the first version of Project Plan and it allows us to have an idea on our progress and how we should progress for the rest of the semester.

### **Pending issues**

Despite being able to form a general idea of what should be done and a budget estimation, the required parts and hardware have not been ordered yet.

### **Plans for next week**

To order the essential parts so we can proceed on building or modifying the existing hardware to suit the senior design's need.

### **Individual Contributions for this week**

Brant Walsh (3 hours 50 minutes)

Dillon McDowell (3 hours 50 minutes)

Yan Yao Chan (3 hours 50 minutes)

### **Total contributions for the project**

Brant Walsh (12 hours)

Dillon McDowell (12 hours)

Yan Yao Chan (12 hours)