

## **EE 491 Weekly Report**

### **DEC15-10 IVend Product Delivery Sensor Design Analysis**

**Advisor: Dr. Zhengdao Wang**

**Client: Fawn Engineering**

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#### **Members (roles):**

Tyler Westberg (Team Leader)

Jacob Olstad (Communication Leader)

Tim Howell (Webmaster)

Steve Dorenkamp (Webmaster)

Seth Schmidt (Concepts Holder)

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#### **Weekly Summary:**

This week was dedicated to troubleshooting the final hardware. The final presentation was finalized and presented to George. The team also discussed the final document and the remainder of the project.

#### **Group Meeting 11/11:**

Duration: 1 hour

Members: Jacob Olstad, Tyler Westberg, Tim Howell, Seth Schmidt, Steve Dorenkamp, George

Notes:

This meeting was held to present the final presentation to George. Overall the presentation was good. George suggested adding information on the microcontroller and having calculation for the falling of an object vs. switching of the LEDs.

#### **Group Meeting 11/12:**

Duration: 1 hour

Members: Jacob Olstad, Tyler Westberg, Tim Howell, Seth Schmidt, Steve Dorenkamp, Dr. Wang

Notes:

This meeting was held to split up the reaming project work and to update Dr. Wang on the project progress. A detection rate of over 90% was achieved during this meeting and final documentation was split up among the group members.

### Plans for next week:

1. Continue work on firmware
2. Begin work on the final documentation

### Members Contributions:

Tyler Westberg: Continued to work on final presentation. Gave presentation to professor for second meeting. Met with two CPRE/EE 491 groups to go over how our project has progressed and answer their questions. Continued to maintain communication with Fawn.

Jacob Olstad: working on final presentation, working with final hardware

Tim Howell: Updated webpage. Worked on presentation with group. Firmware work.

Steve Dorenkamp: Team meeting Thursday. Initial board testing Saturday. Line of sight document review.

Seth Schmidt: Team meeting on Thursday about presentation, finished "Line of Sight" documentation

### Project Contributions:

<u>Member</u>	<u>Time this week (hrs)</u>	<u>Time to date (hrs)</u>
Tyler Westberg	4	90.75
Jacob Olstad	10	127.5
Tim Howell	5	96.5
Seth Schmidt	5	76.5
Steve Dorenkamp:	3	68