

## **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:**

The main goal for our group this week was to get meet with our client to get a better idea of what problem we would be fixing. We also wanted to meet with Dr. Wang to set up a plan moving forward.

#### **Client Meeting 2/04:**

Duration: 1 hour

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

Notes:

This meeting was held with our client so we could receive all the necessary information to get started. They talked us through the problems they were having with their current design like how light is bouncing around the inside of the vending machine and creating “holes” for products to fall through and not be detected. They also gave us the documentation they had, and a few ideas of where to start, such as moving to narrow beam LED’s.

#### **Group Meeting 2/05:**

Duration: 30 min

Members: Dr. Wang, Steve Dorenkamp, Tyler Westburg, Tim Howell, Seth Schmidt

Notes:

This meeting was held with Dr. Wang to give him an update of where we were sitting with information and to further explain the project to him. He suggested we write up something explaining what we believe the project is so that the client can see what we view the problem as in writing. We also made a plan going forward about the

### Plans for next week:

1. Start project plan document.
2. Meet with team to set up a plan to tackle the project.

### Members Contributions:

Tyler Westberg: Researched IR detectors, team meeting with client Wednesday and with Dr. Wang Thursday. Time spent coordinating meeting with client and finding room for vending machine.

Jacob Olstad: Team meeting with client, meeting with Dr. Wang, looking over documentation.

Tim Howell: Team meeting with client wednesday, team meeting with Dr. Wang, helped facilitate delivery of vending machine on friday, began construction of group web site, began reviewing the documentation provided to us by the client.

Steve Dorenkamp: Meeting with client, reading documents from client about ovens issues and testing done, speaking with professor Jay Kim about photonics as they pertain to our project, explaining minor details, and possibly meeting with him as a group to discuss our project, reading correspondence email.

Seth Schmidt: Researched IR detectors, team meeting with clients on Wednesday, team meeting with Dr. Wang on Thursday, helped get vending machine into the senior design room.

### Project Contributions:

<u>Member</u>	<u>Time this week (hrs)</u>	<u>Time to date (hrs)</u>
Tyler Westberg	3.5	7
Jacob Olstad	3	6
Tim Howell	4.5	7
Seth Schmidt	4	5
Steve Dorenkamp:	1.75	3.25