

EE 491 Weekly Report

DEC15-10 IVend Product Delivery Sensor Design Analysis

Advisor: Dr. Zhengdao Wang

Client: Fawn Engineering

Members (roles):

Tyler Westberg (Team Leader)

Jacob Olstad (Communication Leader)

Tim Howell (Webmaster)

Steve Dorenkamp (Webmaster)

Seth Schmidt (Concepts Holder)

Weekly Summary:

This week we completed our project plan and began work on creating a fixture so we can test our solution. We also met with Dr. Wang to discuss how we should move forward. Our goal for this coming week is to continue work on our fixture and to gain a better understanding of the problem.

Group Meeting 2/17:

Duration: 2 Hours

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

Notes:

Meeting to work on our project plan. Our project plan was mostly completed during this meeting and Jake completed the rest.

Group Meeting 2/19:

Duration: 30 Min.

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

Notes:

This meeting was held with Dr. Wang to get feedback on our project plan and to also discuss how we should move forward. He said that he didn't have a lot of time to view our plan but what he saw looked fine. He thought we should move forward by finding the problem for ourselves.

Group Meeting 2/22:

Duration: 1 Hour

Members: Tyler Westberg, Tim Howell, Seth Schmidt, Jacob Olstad

Notes:

This meeting was held to start work on our test fixture so we can repeatability test solutions in the future. We drew up a simple diagram of what we would like to have and Tyler is going to talk to Lee Harker about possibly getting it fabricated.

Plans for next week:

1. Better understand what is happening to the IR light to better understand the problem.
2. Continue work on getting the test fixture created.

Members Contributions:

Tyler Westberg: Team meeting Tuesday to go over solutions and write Project Plan 1. Thursday team meeting with Dr. Wang. Sunday team meeting to design testing board.

Jacob Olstad: Team meeting Tuesday to work on project plan, Finish Project plan, Sunday meeting to work on test fixture

Tim Howell: Team meeting & project plan, worked on team website. Sunday worked on a testing system for the iVend.

Steve Dorenkamp: Team meeting to discuss possible solutions as well as write our project Plan. Talking with Dr Kim about project and possible solutions. meeting with Dr Wang

Seth Schmidt: Group meeting on Tuesday, group meeting with Professor Wang on Thursday, group meeting Sunday

Project Contributions:

| <u>Member</u> | <u>Time this week (hrs)</u> | <u>Time to date (hrs)</u> |
|------------------|-----------------------------|---------------------------|
| Tyler Westberg | 3 | 12 |
| Jacob Olstad | 5 | 14 |
| Tim Howell | 3 | 12.5 |
| Seth Schmidt | 1.5 | 10.5 |
| Steve Dorenkamp: | 2.75 | 7.75 |