

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's goals were to finally determine what the underlying problem was with the detection scheme. We probed one of the boards given to us and discovered that when we find a hole on the board all the signals look similar to when there was no object present.

Group Meeting 3/26:

Duration: 30min

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

Notes:

This meeting was held to update Dr. Wang on our progress. He was happy that we were going to probe the board to discover if there was a hardware or firmware problem that was causing false detection.

Plans for next week:

1. Mock up analog system and see if we can detect objects
2. Project Plan version 2

Members Contributions:

Tyler Westberg: Team meeting with Dr. Wang. Worked on creating power point for end of semester one presentation. Prepared spreadsheets for further testing to be completed the following week.

Jacob Olstad: Team meeting with Dr. Wang and board probing

Tim Howell: Team meeting, began to set up computer programs needed for programming the MSP430. Experimented working with the launchpad. Worked with Jake to probe the boards to better determine the source of the problems.

Steve Dorenkamp: team meeting with Dr Wang. Discussing possible interference problems.

Seth Schmidt: Meeting with Dr Wang, discussed interference problems

Project Contributions:

<u>Member</u>	<u>Time this week (hrs)</u>	<u>Time to date (hrs)</u>
Tyler Westberg	2	30
Jacob Olstad	2	38
Tim Howell	3.5	28
Seth Schmidt	1	23.5
Steve Dorenkamp:	1	17.25