

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 the team got back into the project. We met with Dr. Wang to catch him up on our plans for the coming semester and began to work on implementing prototypes to test out the solutions we developed last semester.

Group Meeting 9/04:

Duration: 1 hour

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

Notes:

This meeting was held to plan the semester and to choose times to meet with George and Dr. Wang.

Group Meeting 9/03:

Duration: 20min

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

Notes:

This meeting was held to update Dr. Wang with our plans for this semester. Dr. Wang suggested that we work towards trying to wrap up the project as early this semester as possible and the team agreed.

Group Meeting 9/04:

Duration: 2 hour

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

Notes:

This meeting was held to begin working on the solution the team came up with last semester. We reduced the intensity of the LED's and saw a marked improvement in the number of times an object was detected.

Plans for next week:

1. Start prototype with increased detectors
2. Continue testing on reduced LED current

Members Contributions:

Tyler Westberg: Set up meetings with our clients at Fawn Engineering and with our adviser Dr. Wang. Attended first group meeting to set schedule for the next few weeks and what we would like to accomplish. Met with group members for two hours to continue working on the project. Added additional resistance to the LED emitters and retested the LED light curtain. Attended information session held by Lee Harker describing resources available to senior design groups.

Jacob Olstad: Meeting with the team. Worked on creating a plot of line of sights for the LEDs

Tim Howell: Verified connection to the webpage, met with Dr. Wang, met with team to work on verifying a better intensity for the LEDs. Attended Lee Harker's information session. Worked through the code provided to figure out how to adjust it for more LEDs.

Steve Dorenkamp: Team meetings

Seth Schmidt: Team meetings

Project Contributions:

<u>Member</u>	<u>Time this week (hrs)</u>	<u>Time to date (hrs semester 2)</u>
Tyler Westberg	5.5	5.5
Jacob Olstad	5	5
Tim Howell	5.5	5.5
Seth Schmidt	3	3
Steve Dorenkamp:	3	3