

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 was dedicated to starting the schematic. A first revision was completed that was then sent to Fawn. There were a few comments that the team will work through.

Group Meeting 10/7:

Duration: 1 hour

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

Notes:

This meeting was held with Fawn to discuss the schematic and any changes that would need to take place. LEDs and input/output requirements were also used. It was decided that we would use the PCB as an aperture and look at reducing how many detectors an led would look at.

Plans for next week:

1. Continue work on firmware
2. Finish Schematic

Members Contributions:

Tyler Westberg: Worked on schematics and BOM. Maintained communication with Fawn to ensure we were on track, and to make sure we are all on the same page. Team meeting with Fawn to discuss how the schematics were working and additional information they gave us. Continued to work on schematics, BOM, and created a dimensional diagram for the circuit boards.

Jacob Olstad: Schematic work, team meeting, meeting with fawnv

Tim Howell: Team meeting, work on schematics, BOMs, and part selection. Team meeting with Fawn to discuss schematics/PCBs

Steve Dorenkamp: Team meeting to discuss email from Fawn. Met up as a team to continue working on our schematic design, bill of materials, and board dimensions with layout.

Seth Schmidt: Team meeting on Monday, met with Tyler on Tuesday to do schematics and BOM, team meeting with Fawn on Thursday (along with more schematic work), met with Tyler Friday to finalize schematics and BOM, tried to find a detector with a larger half power angle that would fit solder pads but was unsuccessful

Project Contributions:

<u>Member</u>	<u>Time this week (hrs)</u>	<u>Time to date (hrs)</u>
Tyler Westberg	11	75.75
Jacob Olstad	12	96.5
Tim Howell	12	77.5
Seth Schmidt	13	68.5
Steve Dorenkamp:	7	59