

## 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:

This week was dedicated to testing and developing new firmware and beginning to work on the schematic.

#### Group Meeting 9/28:

Duration: 1 hour

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

Notes:

This meeting was held to inform Dr. Wang of our plans moving forward. He thought we had a good plan and that increasing the number of detectors and emitters while also reducing intensity would solve the problem.

#### Group Meeting 9/22:

Duration: 3 hour

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

Notes:

This meeting was held to work on the firmware and to begin to work on the schematic. It was decided that Jake and Tim would handle firmware while Seth, Tyler, and Steve would handle the schematic,

#### Plans for next week:

1. Continue work on firmware
2. Finish Schematic

### **Members Contributions:**

Tyler Westberg: Worked on updating schematics and creating a BOM that can be updated as we move further along in the project. Maintained communication with contacts at Fawn to ensure we are on track to meet deadlines next week.

Jacob Olstad: Team meeting, working on Firmware

Tim Howell: Meeting with Dr. Wang and conference call with Fawn Engineering to discuss progress on the project. Updated the webpage. Worked with Jake to trouble shoot the updated code using the launch pad. Tested the new code with six emitters and eight detectors.

Steve Dorenkamp: Worked on layout of detectors and labeling. As well as designing parts for our system in Orcad.

Seth Schmidt: Meeting with Dr. Wang, worked on schematics

### **Project Contributions:**

<u>Member</u>	<u>Time this week (hrs)</u>	<u>Time to date (hrs)</u>
Tyler Westberg	5	64.75
Jacob Olstad	10	84.5
Tim Howell	7.5	65.5
Seth Schmidt	5	52
Steve Dorenkamp:	4	55.5