

EE/CprE/SE 491 WEEKLY REPORT 08

Nov 1st, 2024 – Nov 7st 2024

Group number: 25-34

Project title: Laser Scan Readings for Propeller Measurement

Client &/Advisor: Linden Propeller (Gary Linden) / Dr. Mani Mina

Team Members/Role

Name:	Role:
Alan Whitehead	Testing
Elias Colsch	Client interaction
Denny Dang	Individual Component Design

Past Week Accomplishments

Name	Past Contributions
Alan Whitehead	I continued working on the multi-sensor integration proof of concept (Ultrasonic) I also continued researching data fusion algorithms.
Elias Colsch	This week, I got Mr. Linden to sign the documents provided by the instructors. I also set up a meeting next week to discuss our project with Mr. Linden. Also was available for help with any debugging or general issues.
Denny Dang	Decided to take over Spencer's responsibilities regarding the IR sensor application. Continued looking into different products for potential use.

Weekly Summary:

This week, we met with Mr. Linden to discuss our meeting schedule, which resulted in a plan for a meeting in 2 weeks. We continued to construct our proof-of-concept, though we had to restart our IR sensor design due to missing equipment. We also did a self-evaluation of our current designs, comparing them with industry standards and checking if they met user needs.

Name	Individual Contributions	Hours this week	HOURS Cumulative
Alan Whitehead	I continued to refine the multisensor integration and seek feedback from Mr. Linden to improve the end product.	7	41
Elias Colsch	Received IR sensors and Arduino from Denny to continue proof of concept development while he travels for a job interview. Also set up a meeting plan with Mr. Linden and discussed potential products.	6	42
Denny Dang	Continue development in the IR sensor integration. He talked with Linden about potential products which were all shot down.	7	41.5

Plans for the upcoming week

Name	Future Contributions
Alan Whitehead	I will look at low-cost high performance ultrasonic sensors so that we can try to conveniently buy a sensor to replace the current system for the X-axis.
Elias Colsch	Will continue to set up meetings with Mr. Linden. Will also start helping with the IR sensors. Will construct a basic setup for the IR sensor.
Denny Dang	Will continue IR sensor integration and begin working on the code to make the sensor values more accurate or stable.