EE/CprE/SE 491 WEEKLY REPORT 06
Oct 25th, 2024 – Oct 31st 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. Also attempted to check in on our MIA group member
Elias Colsch	I set up a meeting with Gary Linden to discuss potential sensor options and give a more detailed update on our plans for the project. I also helped with ultrasonic sensors, specifically giving suggestions for placement and mounting. Also attempted to check in on our MIA group member
Denny Dang	Continued research on existing products and applications. Kept in contact with Kyle, concluding our recent meeting. Continued helping other teammates in their contributions.Started working on 3D CAD models of our client's current setup and future physical design changes. Also attempted to check in on our MIA group member

Weekly Summary:

This week, we received the signed documents from Gary Linden. We also received word that one of the group members had dropped out of the class, so we attempted to get our equipment

from them with no success. We decided just to check out a new set of IR sensors and an Arduino from ETG so we could start working on the IR sensor setup. We set up a meeting next week to discuss our project with Gary. We continued to work on ultrasonic sensor data fusion and started working with the 3D models for Linden Propellers' current setup.

Name	Individual Contributions	Hours this week	HOURS Cumulative
Alan Whitehead	I continued work on the multisensor integration via hardware and software algorithms to achieve more accurate values.	6	34
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.	6	36
Denny Dang	Decided to take over Spencer's responsibilities regarding the IR sensor application. Continued looking into different products for potential use.	6	34

Plans for the upcoming week

Name	Future Contributions
Alan Whitehead	Will continue to refine the multisensor integration and seek feedback from Mr. Linden to improve the end product.
Elias Colsch	WIll continue to set up meetings with Mr. Linden. Will also start helping with the IR sensors.
Denny Dang	Will restart our progress on the IR sensors.