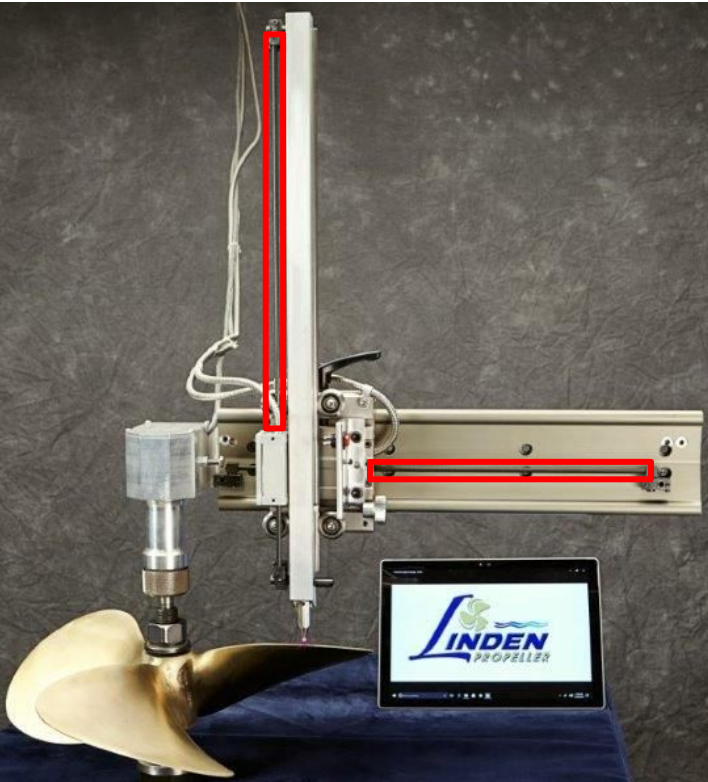# Prototyping

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(and Mani Mina)

Project: Laser Scan Readings for Propeller Measurement

Group: sdmay25-34

Project Overview

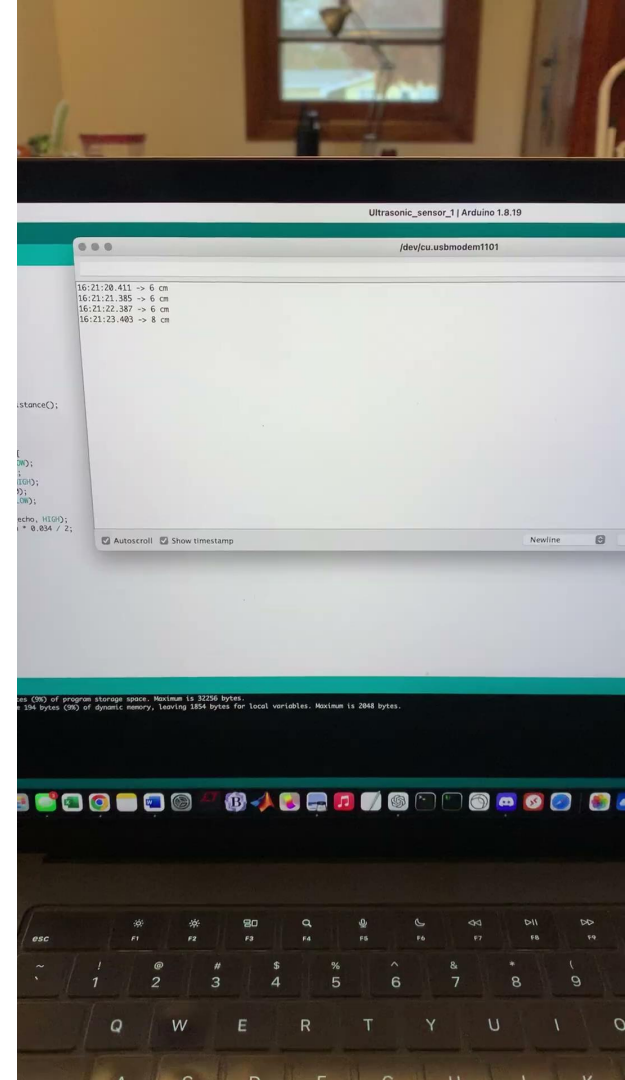Project Name: Laser Scan Readings for Propeller Measurement

Goal: Replacing propeller measurement system of Linden Propeller

Reason for change:

- Carbon fiber rods attached to scales are brittle
- Expensive to replace/repair
- Extended lead times
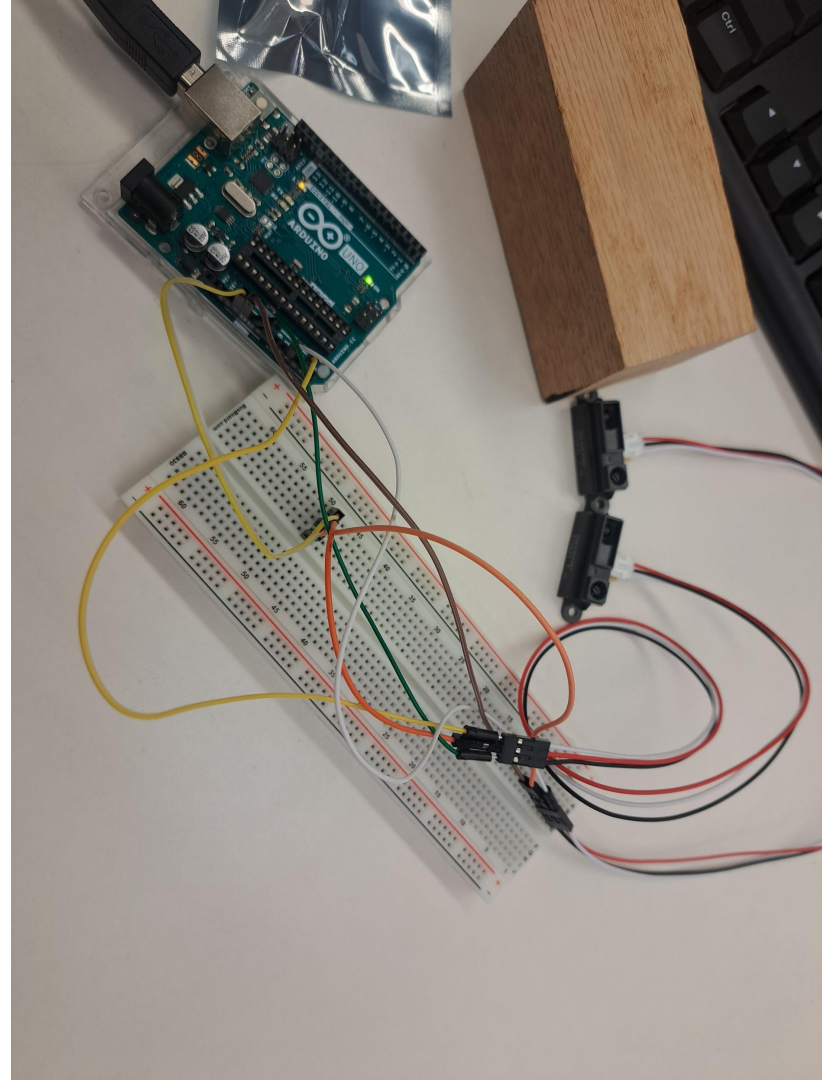
Prototype 1: Ultrasonic

- This prototype is steadily coming together
- Outputs are being produced relatively accurately and data fusion has been started
- Will be pushing to have similar code for IR to provide accurate comparisons
- Will be looking to finish this prototype in the next few weeks

Prototype 2: IR

- This prototype is still at the beginning stage due to 2-week delay
- 2-week delay due to missing group member that had equipment
- Have since confirmed that he has dropped the class and we got a new IR setup
- Initial difficulties connecting to Arduino

Implications and Next Steps

- We're now looking into making data reading faster and fusing these information packs together for more precise data.
- After confirming the devices applicability, we'll begin the overall design schematic and drawings for installation.