

WEEKLY REPORT and MEETING AGENDA

Report #: 9 Project Name: Open Source Lidar
Date: 3.31.2022 Prepared by: Yile Chen

Agenda for the weekly meeting

1. Distribute hardware
2. Start working on tasks with hardware.

Accomplishments during this period

1. Created CDR and Presentation
2. Presented the CDR Presentation
3. Discussed possible contingency plans due to supply chain delays.
4. Received the majority of parts and have begun working on creating a physical system.

Plans for next period

1. Setup software for commercial lidar to get Bag data.
2. Flash code onto ST MCU through orange pi. Set up ROS for multiple machines after connecting orange PI to wifi to view hector Slam results through laptop.
3. Setup the motor and make it spin properly
4. Setup encoder proto-board circuit to help correct motor speed.
5. Print the base for holding the lidar and the overhang to hold the motor.
6. Divide photodiode and laser into separate PCB boards.
7. Create a clear testing procedure.

Project management status

1. Schedule and milestones - Integrating the entire system for the next couple weeks.
2. Teamwork - Both teams are meeting for major work session on Saturday at Zach
3. Purchases - Still awaiting the PCB, yet most of the other parts have arrived.

Minutes from previous meeting

1. Finished CDR documentations.
2. Waiting for PCB and the mirror.
3. Potentially flash the Discovery STM.
4. Created dependencies of the features in the firmware.