

WEEKLY REPORT and MEETING AGENDA

Report #: 11 Project Name: Open Source Lidar
Date: 4.14.2022 Prepared by: Paul Roy

Agenda for the weekly meeting

1. Work with PCB
2. Integrate the motor with the rest of the LIDAR system.

Accomplishments during this period

1. Obtained the Jetson and PCB and also soldered remaining components on the PCB.
2. Populated Jetson system with random motor data.
3. Had Lidar data properly visualized on RVIZ
4. Setup Motor and began setting up the encoder.

Plans for next period

1. Finish Peer Review
2. Prepare Final Report
3. Prepare videos for Final "Documentary"
4. Finish integration of the LIDAR system
5. Identify any possible issues with current setup and try to fine tune.
6. Prepare PCB to handoff to Di and other TA's
7. Need to use multiple serial ports to gather all data.
8. Waiting for Arduino Mega to order.

Project management status

1. Schedule and milestones - Finished integrating the motor component with the LIDAR component.
2. Teamwork - Both teams have been working together to finish this final section of the project.
3. Purchases - Order Arduino Mega

Minutes from previous meeting

Guarav is working on modified PCB design and soldering the 2 remaining components that have arrived from Digikey onto the board. Guarav should have a good draft done by Thursday. Aamhish is making the motorized spinning platform and testing the motor and should also finish by this Thursday. I will help him attach the encoder. Allen and Paul created the hector slam map and are done on the LIDAR side of things. Going forward we need to obtain the Jetson and create the same system there. Afterwards we should be able to fully integrate the system and be done with it.