

WEEKLY REPORT and MEETING AGENDA

Report #: 7 Project Name: Open Source Lidar
Date: 3.8.2022 Prepared by: Paul Roy

Agenda for the weekly meeting

1. Discussed our various findings regarding software.
2. Went over a reconfigurable system.

Accomplishments during this period

1. Begun preliminary analysis of the software files
2. Accomplished the reconfigurable design
3. Contacted the author of OpenTOFlidar

Plans for next period

1. Continue to go over the various software files
2. Try to gain an understanding of how the files work in unison.
3. Contact either Di or OpenTOFlidar regarding file and packet processing.
4. Further go over reconfigurable system

Project management status

1. Schedule and milestones - Mostly we are awaiting the parts to arrive. We have implemented a software checklist in order to go over all the files in the directory
2. Teamwork - Gaurav and Aahmish have designed a tentative design for the reconfigurable system. As a team we will go over the general files for software and try to gain a better understanding of it overall.
3. Purchases - Still awaiting for parts to come in.

Minutes from previous meeting

Done:

1. Bought all of the hardware for the project.
2. Learned how to reimburse for the project.
3. Planned initial software analysis.

To do:

1. Finish the reimbursements for all members
2. Clarify and ask Questions to the OpenTOF owner.
3. Go over and understand code at a low level in order to understand each of our software portions.
4. Purchase a velocity controller for the monitor.
5. Write PID loops to control velocity of the motorized spinning mirror.
6. Effectively sample/capture the data with the MCU program.
7. Create point cloud map with data captured.
8. Want to learn where the power for the LIDAR system in the picture is coming from.