**WEEKLY REPORT and MEETING AGENDA**

Report #: 1 Project Name: 3D Lidar Mapping

Date: 09/12/2022 Prepared by: Luke Loera

| Agenda for the weekly meeting |
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| Accomplishments during this period |
| 1. Research and orient with terminology and basics for lidar maps and bathymetric attributed grid (BAG) files. 2. Brainstorming how to tackle the problem. 3. … |
| Plans for next period |
| 1. Each team member gets the initial LeGO-LOAM framework to run by itself on their own machine. 2. Each team member finds one other framework. 3. Each team member orients themselves with the project proposal. 4. Each team member starts their individual journal. 5. Seth (team lead) share Github repo with Professor Wang and TA Jiang |
| Project management status |
| 1. Schedule and milestones 2. Teamwork 3. Purchases |

| Minutes from previous meeting |
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| * First weekly report due next week. * Start the individual journal. * Start project proposal and the proposal report.   + Researching, planning, and designing * Share Github repo with Prof and TA. * Our project is more of an offline project. * Compare the different 3D Lidar mapping frameworks and choose the most accurate. * Use GPS as a baseline. The Lidar could be extended for localization to find the location of the robot based on the Lidar map. * Stretch goal to integrate object identification of traffic signs since the HD map only identifies traffic lights. * This project is more open-ended. |