

Instructions for preparing the end of quarter research report

The report should contain the following sections:

- **Summary:** This section is a short summary of the rest of the report.
- **Big Picture:** This section contains the whole problem that the lab is attempting to solve. It isn't limited to just your own piece and may contain goals that were not yet accomplished. Pictorial representations of how the robots/workstation interact for the stated problem would be helpful here.
- **My Contributions:** This section details your own contribution to the 'Big Picture' problem of the previous section. This section contains high-level descriptions of the work you did.
- **Preliminaries:** In order to make the report more self-contained, an optional preliminaries section could include introductory theory related to the project.
- **Methodology:** This section describes the way you solved the problems described in the previous section. This section should contain the ideas behind the code you've generated. Also, pictorial representations of how the code works or how multiple pieces of code interact would aid your exposition. This section should make reference to specific code you've written (but not include them). The referenced code should be well commented.
- **Tips:** This section describes informative tips you feel would be useful to someone picking up your project where you left off. It could include challenges you faced and how you solved them or links to resources you found especially helpful with a description.
- **Pitfalls:** This section describes issues/complications that arose that you were unable to solve. It could contain problems arising from limitations in ROS/turtlebots or alternate approaches to problems that you ended up solving a different way.
- **Conclusions & Future Directions:** This section begins by clearly defining the progress on the 'Big Picture' problem. After that, it should describe what the future work should be. With one more quarter, what would you do?

Finally, we can provide feedback for early drafts of the report.