Problem Set 1 Lab Report

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Disclaimer:

I was unable to install the STDR simulator on my ROS Noetic boot of Linux, but I already had the STDR simulator installed on my boot with ROS Melodic. I don't know how much this will screw up how it's tested for grading. I apologize for any mishaps this might cause.

Introduction

This lab was a simple one, whose purpose was to hard-code a path for the STDR robot to get from the bottom left corner of the map to the top left corner. We were given some sample code to work with that we were supposed to modify to reach the goal.

Observations

This lab wasn't especially hard (I'm pretty sure it wasn't meant to be), but it definitely was tedious trying to figure out the timing and distances of where and how the robot should move to get to the finish. Nothing was ever precise, especially getting the robot to turn a specified number of radians, even when I tried using the exact definition of pi for the equations, which added extra hassle to the timing.

Link to Video

https://youtu.be/3KtCijFPRjQ

Link to GitHub Repository

https://github.com/e-voss/my_stdr_control