

Figure 2: Task 2's test at Sudikoff building

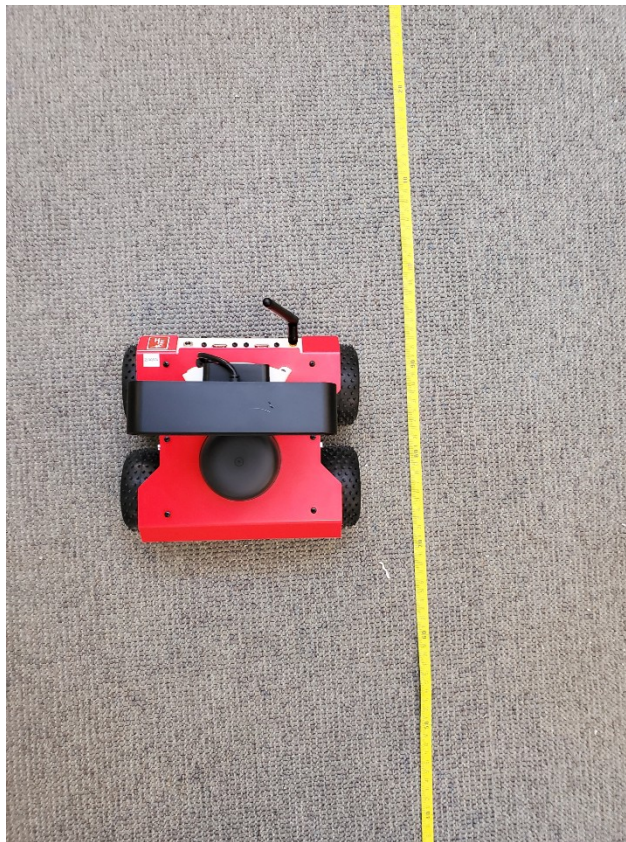


Figure 3: Task 2's test result

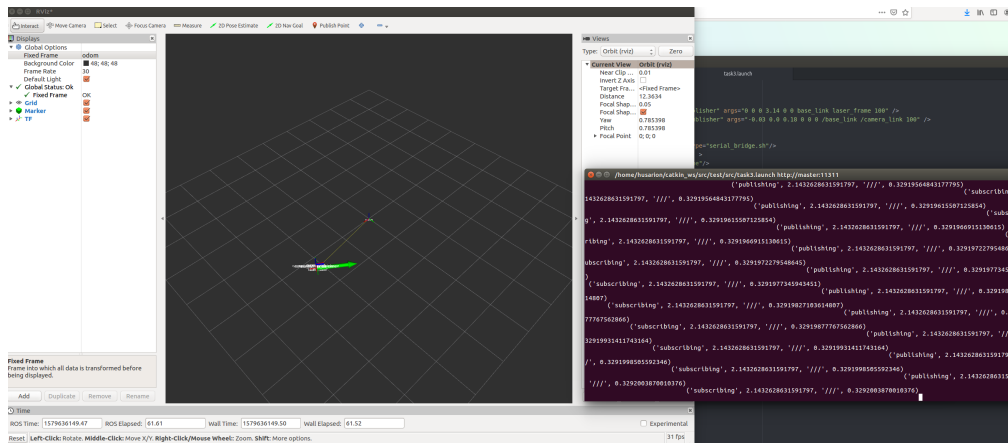
2 Evaluation

2.1 Performance

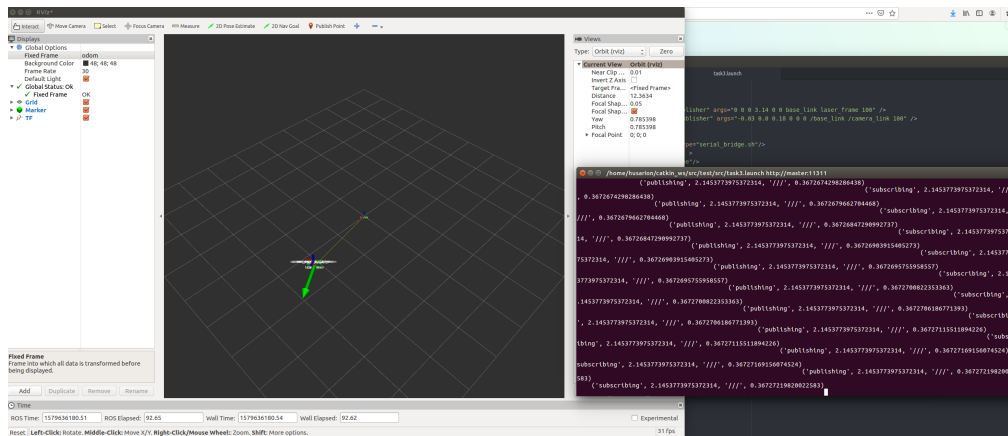
- For task 2, while the logging launch is executed, I kept encountering errors regarding transformation of images. However, you can ignore this as the rosbag file is correctly recorded by dropping unnecessary topics. Other than that, it works fine.
- As for 1 meter travelling, it is a bit off by making the robot reach about 1.15 meter as you can see from the attached csv file. I guess one reason will be publishing messages based on rospy rate. Somehow, frictional force on the floor might be a small factor to this. However, it is necessary to keep watch on how it would travel according to different rate and termination of node when it reaches the goal.
- For task 3, you can easily find out the robot's pose including position and orientation once you also visualize TF. It is possible that the robot's position might be off the grid of RVIZ, but you can check with TF easily. I tested task 3 as the robot moves.

2.2 Result

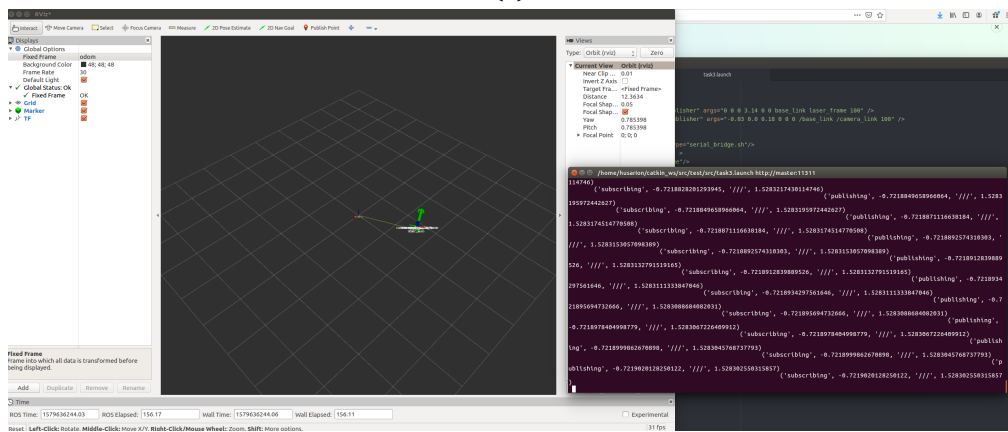
- Results are given as shown in and Fig. 3 and Fig. 4.
- You can check all the code in my git repository.



(a)



(b)



(c)

Figure 4: Visualization of robot's position on RVIZ