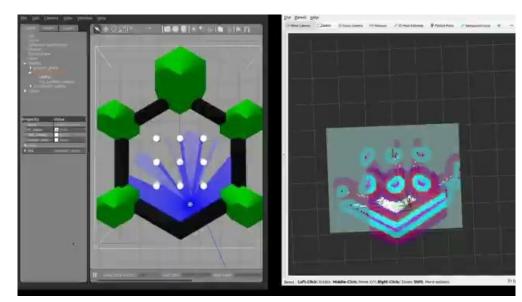
Package Delivery Robot in Apartment

Agenda



What had done for sprint 1

- What to solve → Build a package delivery robot in an apartment
- What had done



- ✓ Simulate the robot in complex environment to examine the navigation packages and other functions.
- Come up with an idea to make the robot upload and download the packages
 - Why → Still research about how to operate robotic arm in ROS 2.

Progress of Sprint 2

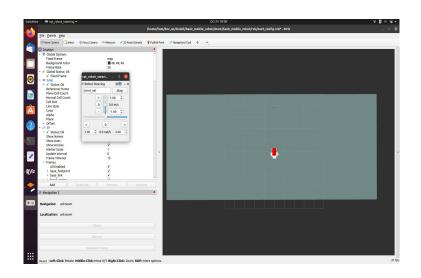
What has done since Sprint 1

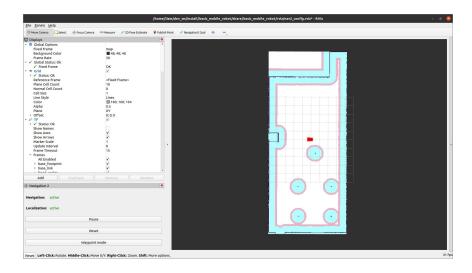


Environment credit to https://github.com/gazebosim/gazebo-classic/tree/gazebo11/worlds

What has done since Sprint 1

- How to map an unknown environment for a robot and save it as known data?
 - ROS2 SLAM(Simultaneous Localization and Mapping) package
 - ☐ Manually control the stick to move the robot
- Before and after mapping





- Schedule waypoint to arrange the paths to deliver packages.
 - What's the difference between unknown and known data? — Generate optimal arrangement.

- Method to pick up packages, or alternative way to achieve the demand.
- ☐ Tune some parameters to optimize the delivery efficiency.

Thank you!