UDACITY

‹ Return to "Robotics Software Engineer" in the classroom

DISCUSS ON STUDENT HUB

Where Am I?

REVIEW

CODE REVIEW

HISTORY

Requires Changes

2 SPECIFICATIONS REQUIRE CHANGES

Well done overall..! You're just a little away from passing this project. Please go through my review carefully and ace this project in your next submission. All the best..!

Basic Requirements

Student submited all required files:

- **ROS Package containing AMCL, teleop, robot, world and map files**
- **Screenshot(s) of localized robot in RViz**

Great job..! You have submitted all the required packages and files that includes amcl, teleop, robot, world and map. You have also submitted screenshots of your robot localizing itself. Impressive..!

Simulation Setup

Student's simulation world and robot could properly load in Gazebo.

Nice work..! Your simulation world and robot are properly loaded in gazebo.

Student's simulation setup should have the appropriate number of landmarks or geometric features to perform localization.

Well done..! Your simulation environment has appropriate number of landmarks and geometric features to perform localization.

Localization Setup

Student's launch file contains all required nodes:
Map Server node `map_server`
AMCL node `amcl`
Move Base node `move_base`
The student's program should be able to launch without errors

Great..! You have submitted all the required nodes that includes map_server, amcl and move_base and are launched without any errors.

Student filled required parameters for AMCL and move_base in the launch file and the config file

You've included new parameters but still you've to include some parameters to improve your robot's localization.

Quick hints :-
1) Try adding odom_alpha values.
2) Try adding "min, max particles" laser parameters.

Localization Performance

Student's robot could quickly localize itself after being tele-operated in the student's world, or given nav_goal target.

As stated in the previous rubric comment, try adding those new parameters and tune values to improve robot's localization accuracy.

RESUBMIT

DOWNLOAD PROJECT

Best practices for your project resubmission

Ben shares 5 helpful tips to get you through revising and resubmitting your project.

Watch Video (3:01)

RETURN TO PATH

Rate this review