UDACITY

PROJECT SPECIFICATION

Where Am I?

Basic Requirements

CRITERIA	MEETS SPECIFICATIONS
Did the student submit all required files?	Student submited all required files: • ROS Package containing AMCL, teleop, robot, world and map files • Screenshot(s) of localized robot in RViz

Simulation Setup

CRITERIA	MEETS SPECIFICATIONS
Did the student set up the simulation environment properly?	Student's simulation world and robot could properly load in Gazebo.

CRITERIA	MEETS SPECIFICATIONS
Is the student's simulation setup suitable for the localization task?	Student's simulation setup should have the appropriate number of landmarks or geometric features to perform localization.

Localization Setup

CRITERIA	MEETS SPECIFICATIONS
Did the student correctly build the launch files for localization?	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
Did the student properly set the parameters for localization?	Student filled required parameters for AMCL and move_base in the launch file and the config file

Localization Performance

CRITERIA	MEETS SPECIFICATIONS

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

Suggestions to Make Your Project Stand Out!

Standing out submissions should have robots capable of continuously monitoring their surroundings and stoping whenever there is an obstacle blocking them. Also, start documenting your work on localization, which will contribute towards the final Home Service Robot project!