UDACITY

PROJECT SPECIFICATION

Build My World

Basic Requirements

CRITERIA	MEETS SPECIFICATIONS
Does the project include a **world** directory containing the Gazebo world file, a **model** directory containing a structure and an object model files, a **script** directory containing the C++ plugin code, and a **CMakeLists.txt** file?	The student submitted all required files specified in the criteria.

Building

CRITERIA	MEETS SPECIFICATIONS

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Does the project include a house with walls?	The student designeda structure and stored it in the model directory. Structure basic requirements: • Structure is different than the one shown in the sample simulation world. • Single floor. • Enough space for robots to navigate. • At least one feature. • At least one color.

Modeling

CRITERIA	MEETS SPECIFICATIONS
Does the project include an object built using the **Model Editor**?	The student designed an object and stored it in the model directory. Model basic requirements: • Object is different than the one shown in the sample simulation world. • Object links are connected through joints.

Gazebo World

CRITERIA	MEETS SPECIFICATIONS

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Doe the project contain a **Gazebo world** with multiple models?	The student created a Gazebo world and stored it in the world directory. Gazebo World basic requirements: • World is different than the one shown in the sample simulation world. • Contains the structure model. • Contains two instances of the object model. • Contains one model from the Gazebo online library.

World Plugin

CRITERIA	MEETS SPECIFICATIONS
Does the project contain a C++ **world plugin**?	The student created a C++ plugin and stored it in the script directory. Also, the student created a CMakeLists.txt file and stored in the main project directory. World plugin basic requirements: • The plugin C++ code should print "Welcome to <your name>'s World!" message. • Do not submit the build directory!

Suggestions to Make Your Project Stand Out!

Stand out submissions should have multiple models that interact through model plugins inside the Gazebo world.