

First Contact with Gazebo

Gazebo free simulator

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Abstract

The target of this exercise is to develop a Mobile Robot using the Model Editor of Gazebo and building the House of our dreams using the Building Editor of Gazebo .

I. INTRODUCTION

These project consists by some pieces :

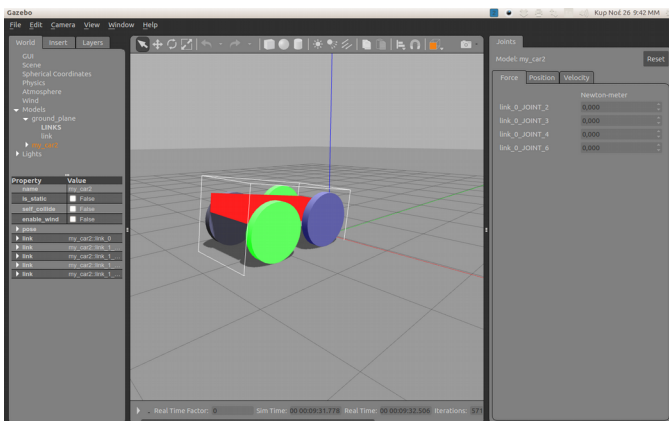
- Building a Mobile Robot
- Building a House

II. ANALYZE PARTS OF THE PROJECT

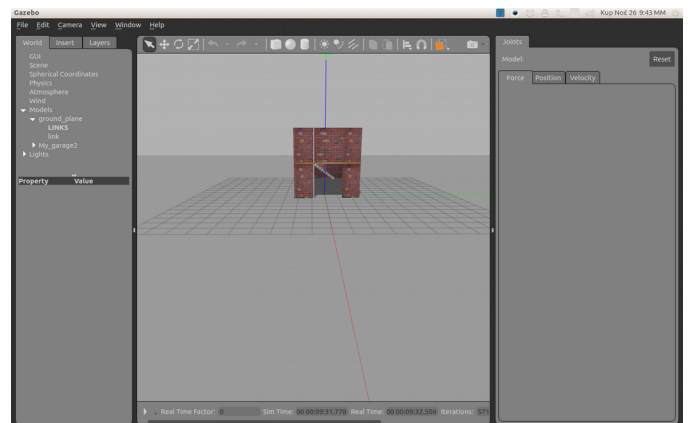
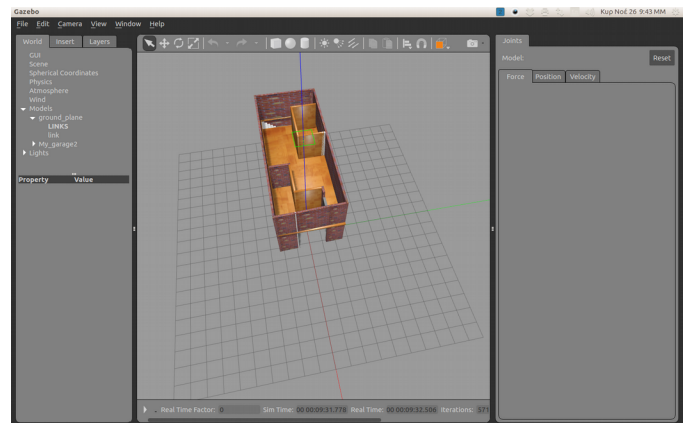
A. Building a Mobile Robot

I have built a new Robot with 4 types instead of the Tutorial's Mobile Robot .I have used a square box to simulate the body of the car and 4 cylinders to present 4 tires .After some scaling ,rotating ,translating I have built the basic parts of the Real Robot Car .Furthermore , in order to incorporate the tires on the car , I used Gazebo-Links and the Align Tool .But I should mention that by using the Vision Tool I have added a life-color to my Robot Car .

Picture of my Car :



B. Building a House with Garage for my Robot Car Using the Building Editor of Gazebo :



C. My Final World

