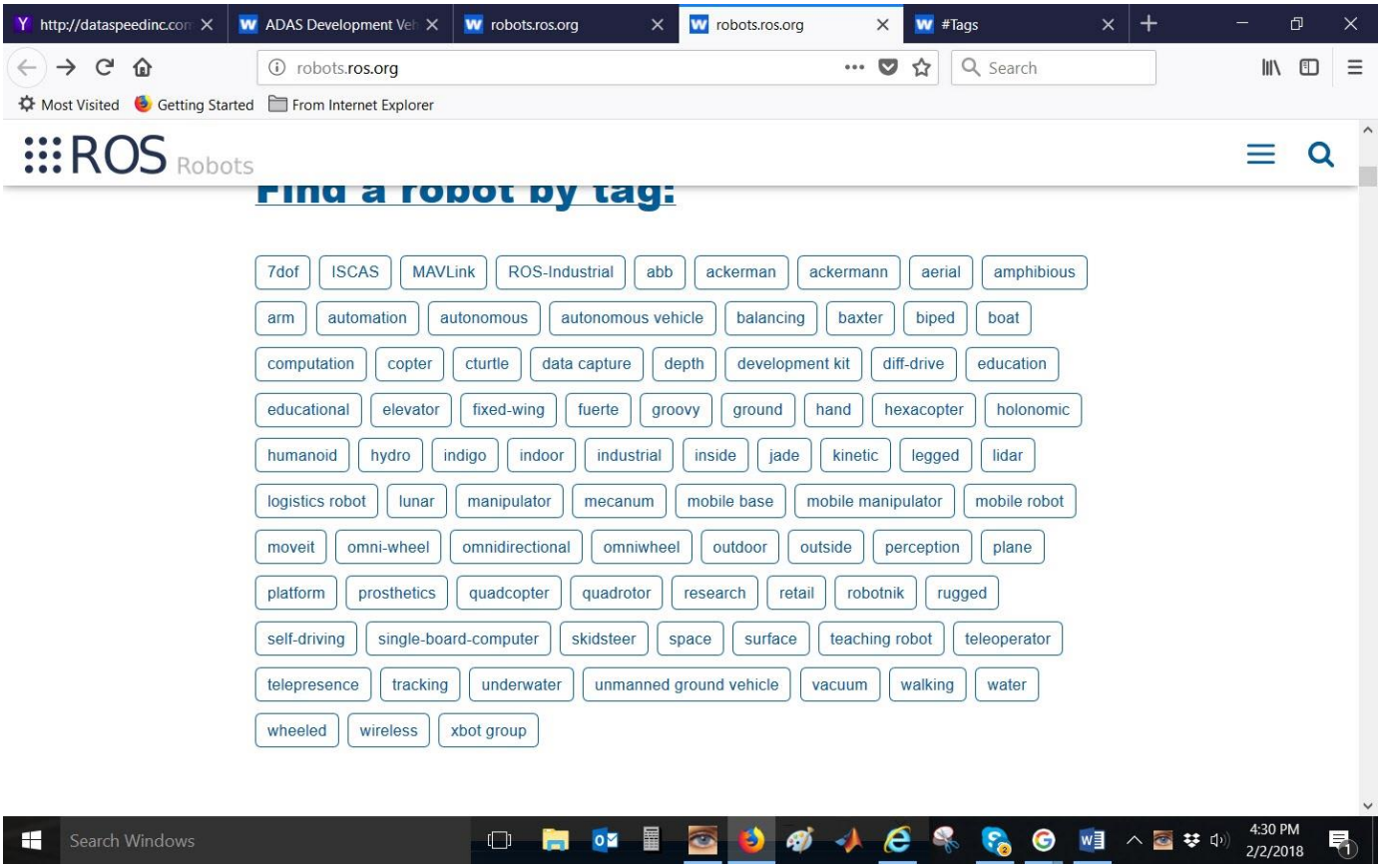
## MOBILE ROBOTS USING ROS

http://robots.ros.org/




### ADVANCED DRIVER ASSISTANCE SYSTEM

http://dataspeedinc.com/docs/ADAS_Kit.pdf

Carla is a self-driving Lincoln MKZ developed by Udacity and equipped with LIDAR, radar, and cameras.

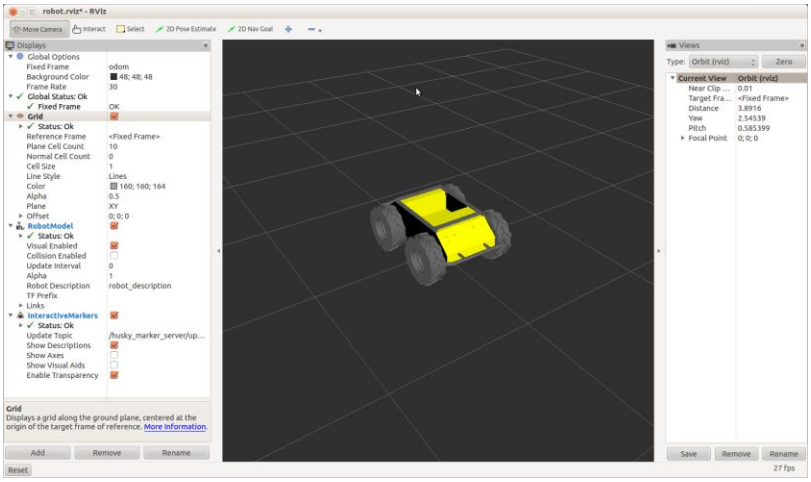
http://robots.ros.org/category/marine/

REFERENCE FOR SELF-DRIVING CARS USING ROS:

*ROS Robotics Projects* Lentil Joseph Chapter 10, Packt Publishers, 2017

SIMULATORS

http://www.clearpathrobotics.com/assets/guides/ros/Drive%20a%20Husky.html




HUSKY

ROBONAUT

## Erle-Plane

# Sensors supported by ROS

http://wiki.ros.org/Sensors

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1. Sensors supported by ROS
1. Portals
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12. Sensor Interfaces

Sensor Interfaces EXAMPLE LASER SCANNER

- hokuyo_node
- Tutorials

1. How to use Hokuyo Laser Scanners with the hokuyo_node

   This tutorial is an introduction to using a Hokuyo laser scanner connected to a desktop. After reading this tutorial, you should be able to bring up the hokuyo_node and display the laser data.

2. How to Dynamically Reconfigure the hokuyo_node

   This tutorial covers using the reconfigure_gui to dynamically reconfigure the hokuyo_node to run with different parameters. After reading this tutorial, you should be able to bring up the reconfigure_gui and change the hokuyo_node parameters.

3. How to dynamically reconfigure the hokuyo_node from the command line or code.

   After completing this tutorial, you will be able to reconfigure the parameters of the hokuyo_node from the command line or python code