COMP.4510/COMP.5490 Mobile Robotics

Fall 2018

Prof. Yanco

**Assignment 0: ROS Tutorials**

Out: Thursday, 6 September 2018

Due: Thursday, 13 September 2018, with files submitted before class

***Preparation:***

You may want to look over the ROS slides form last class as well, particularly for CMakeLists.txt setup.

**What to do:**

1. Do the Core ROS Tutorials (<http://wiki.ros.org/ROS/Tutorials>) 1-17.
   1. Make sure you do **both** the C/C++ **and** Python versions of the publisher/subscriber tutorial (don’t worry if you are not familiar with Python; we just want you to get a basic into to that language).
2. Do the rviz Text-based Tutorials (<http://wiki.ros.org/rviz/Tutorials>) 1-10.

***How to Get Help:***

Email [jkuczyns@cs.uml.edu](mailto:emcann@cs.uml.edu) if you need assistance on this assignment.

***What To Turn In:***

A zip file containing the following:

1. A ROS package containing *(these two don’t have to be “your own work”, since you’ll copy/paste from the site; however, feel free to experiment)*:
   1. Your solutions from the publisher/subscriber tutorial (both C++ AND Python versions)
   2. Your solutions from he message/service tutorial
2. The bag file from Core ROS Tutorial 17.
3. A README file with brief instructions for the grader on how to run it.
4. Your default rviz configuration file, renamed to ```DOTrviz```. (You’ll find it as a hidden file: “~/.rviz”)

(from your src folder: *zip –r yourname\_hw0.zip your\_dir*)

Copy the zip to your homedir on mercury.cs.uml.edu, then submit it with:

**submit jkuczyns hw0** *yourname\_hw0.zip*