

CENG 6838 Robotics with Baxter

Homework Baxter Spring 2016

Due February 24, 2016

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Put your name, Student ID, HW number, date, and the Course Number on your homework. Please submit a paper copy at the beginning of class. The assignment should be typed.

On the WEB site, review the Guide and Cheat Sheet

[Turtlesim Guide](#) [TurtlesimCheatSheet](#)

1. Update the Table of Turtlesim Topics, Services, etc. for Indigo version of ROS (30)

From the Turtlesim description fill out the following Table:

Command	Nodes/Services	Publication	Subscribe/topics /parameters
<code>\$roscore</code>	Master /rosout		
<code>\$roslaunch turtlesim Turtlesim_node</code>	- - - -	/turtle1/color_sensor - -	
<code>roslaunch turtlesim turtle_teleop_key</code>			
<code>roslaunch turtlesim -list - - -</code>	<code>rosservice commands -call - - -</code>	<code>rostopic commands -show - - -</code>	

2. Introduction to Baxter On the CENG 5931 WEB site:

[Baxter Introduction Guide](#) [Baxter User's Guide](#)

Review the Baxter's Introduction Guide and the Users Guide on our WEB site.

Please read carefully and view some of the WEB sites listed in the *Guide*.

Write a brief summary of the major sections of the Guides – an outline will do.
(40 Points)

3. View the You Tube Videos and write a brief essay about the videos and the paper (30 points) - List the references for each videos.

a. **BAXTER Dunks A Ball** **Brandon Boyce** and Jessica Mullins

<https://www.youtube.com/watch?v=zMfi38ndXvY>

b. **BAXTER Sort Colored Balls - Author's View** **Brandon Boyce** and Jessica Mullins

https://www.youtube.com/watch?v=zKR_vvnJIfA

c. <http://www.jessicamullins.com/pdf/mullins-boyce.pdf>
(Read this and summarize in a short Essay)