CSCE 274 Fall 2022

Homework 1 (3% over the final grade)

Assigned: Aug 18, 2022 Due: Aug 23, 2022

Instructions

Please read carefully the following questions and make sure to give the answers asked for. Don't give a beautiful answer to the wrong question. If you have any doubts, please let me know.

The document containing the answers should be uploaded on the CSE Moodle (http://dropbox.cse.sc.edu) and should have the following characteristics:

1. Header with the code of the class, the semester and year, the homework number, and your name.

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e.g., CSCE 274 Fall 2022 - Homework 1 - Ibrahim Salman
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- 2. Your answers, clearly identifying the answered assignments.
- 3. The name of the file should be in the following format: csce274 fall2022 <hw#> <last name>.pdf

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e.g., csce274_fall2022_hw1_salman.pdf
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Questions

Question 1. Search on the web about a robot and choose one*. Describe its major components (sensors, effectors, actuators, controller) of it and characterize it in terms of degrees of freedom and sensor space.

Question 2. Search on the web about a sensor and choose one*. Describe its characteristics and the way it operates. For example, power requirements, interface, what it measures, what data it returns.