Assignment

Robot Definitions

Introduction to Robotics
Instructors: Michael Wolf & Jeremy Ma

1) Identify **two** examples of human-built mechanisms that meet the definition of robots discussed in class. For each, discuss:

- Describe the Sense / Decide / Act loop of the robot.
- Why is it good to use a robot for this task?
- What are its primary limitations / challenges to make it better? [You may wish to address the above two topics in contrasting why (or why not) you should use a robot versus a human for the task.]

2) Identify an example of something (human-built) that meets one of definitions of a robot but that most people would *not* actually consider to be a "robot". Describe the Sense / Decide / Act loop of this device. Why do you think people do not consider it a robot?

3) Identify something that is often considered a robot that does not meet one of the definitions. In what way does it fail to meet the definition? [For all these questions, avoid using examples discussed in detail in class. You may refer to the Ichbiah book on reserve at the library for inspiration (i.e., you may use examples you find in the book).]