**ME 192 Lab Safety Rules and Student Agreement**

**Fall, 2014**

*The robots in Eng. 192 lab are not fenced in. E-stop buttons around the robots provide machine safety. It is each student’s responsibility to guard against any chance of accident. Use your good judgment and common sense in conducting your lab projects. Here are some of the safety tips.*

* Know the robot work space. Keep hands off 12” from the work space boundaries.
* Know where the E-stop buttons are and put a hand on one while debugging your program.
* Set the gripper speed at ≤ 50% of normal on XY and ≤ 25% of normal on Z axis while testing.
* Never retrieve or place an object inside the robot work space when the program is running.
* Do not leave the robot gripper idle even when the robot is waiting for a motion signal.
* When idling, the gripper should be at a safety location higher than any other defined locations.
* Step execute your program lines for debugging before running it as a whole.
* Be cautious in using a brake release button. The arm may suddenly collapse due to weight.
* Make the gripper to approach the pick up or drop off point from above, and at a reduced speed.
* Leave all cable connections and wiring changes with the instructor or the lab assistant.
* Do not operate any robot without permission from the instructor or the lab assistant.
* Always work with a team partner in operating a robot. Ask when in doubt.
* Know which robot you are running when two robots are connected to a single controller.

Please sign the below Safety Rules agreement form before starting on your first lab project.

*By signing this paper, I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, agree to abide by the above safety rules and absolve the instructor, and/or the lab assistant, and the university, from any liability during the time that I work on the robot.*

*Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*