Pre Lab 6

Robot Competition

Objective

In this experiment, students will continue using the PUMA 260 robot manipulator to achieve the following goals:

a) Develop a C/C++ or Matlab program to successfully throw an object.

b) Design a robust image processing pipeline to integrate with the program designed in 1.

c) Develop a strategy to pick up an object and throw it to the scoring zone of the competitor robot.

Reference Materials

a) Lab 2 handout, reference manual of image processing toolbox and the template C++ function

b) Matlab code from Lab 2.

Assignments

a) Please review your Matlab code for Lab 2.

b) Please explain all the details of the steps that you need to add to your Lab 2 code to implement the final program for the competition. Explain the steps in order and submit this prelab assignment at the first of the next class (please take a look at Lab 6 assignment to better understand the goal and objectives).