

Robot Manipulators and Automation

AUTO4507

Lab Assignment 6 – *Group* – Parallel Robot

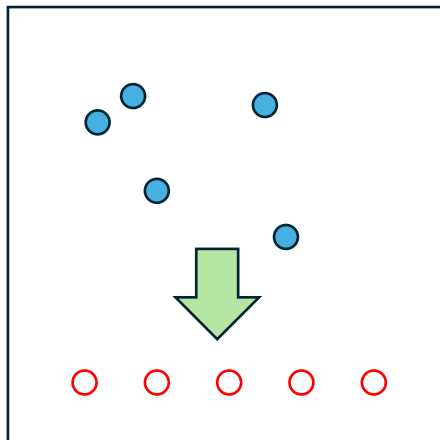
Points: 7+3 = 10

Before you start the lab read the documentation and make yourself familiar with the safety instructions.

The box door needs to be properly closed for the robot to start
The robot will stop if the box door is being opened or if the emergency button is being pressed.

Experiment 1 – Move Objects

Five objects will be placed in fixed, known position on the table.
Activate the delta robot's suction cup to grasp the objects and line them up along the front of the box in a straight line with equal spacing.



Experiment 2 – Vision System

Three objects will be placed at random locations in the work area.
You are to calibrate the camera using the VisionApp (found in the IGUS robot controller) and then use block programming along with the VisionApp to pick up each bottle cap and deposit it into a bin at a fixed location.