

Controller: feedforward-plus-PI

Kp: 7

Ki: 0.01

Initial position of the cube: (0.5 m, 0.5 m, 0 rad)

Goal position of the cube: (0 m, -0.6 m, -1.57079632679 rad)

The robot is able to pick up the cube at a new initial location and place it at a new goal location.

The error also converges to zero before the first trajectory segment.