Arun Kumar ME 449 Final Project

#### **Controller Type**

Feedforward-Plus-PI controller

#### **Controller Gains**

Kp = 5.5Ki = 0.2

# **Cube initial and final configurations**

```
Tsc_i = [[1,0,0,2], \\ [0,1,0,0], \\ [0,0,1,0.025], \\ [0,0,0,1]]
Tsc_f = [[0,1,0,2], \\ [-1,0,0,1], \\ [0,0,1,0.025], \\ [0,0,0,1]]
```

### **Actual Initial Robot Configuration**

config\_a = [0.6, -0.7, 0, 0, 0, 0, 3\*pi/2, 0, 0, 0, 0, 0, 0]

# **Reference Initial Robot Configuration**

config\_r = [0,-0.4159,0.2,0,0,0,3\*pi/2,0,0,0,0,0,0]