Controller Information and Results

Controller Type

• Feedforward + Proportional (P) Controller

Feedback Gains

• **Kp**: Identity Matrix

Performance Summary

• Overshoot: None

• Response Speed: Fast

• Accuracy: Successfully picks and places with precision

Notes

- This setup represents the best-case scenario, balancing speed and accuracy without overshoot.
- The error twist response can be seen in the plot, where each velocity component is plotted over time
- An extra video is included to compare the mobile manipulator response without joint limits with the same controller and gains.
 - The performance is generally the same except the fact that the arm nearly folds in on itself due to the lack of limits