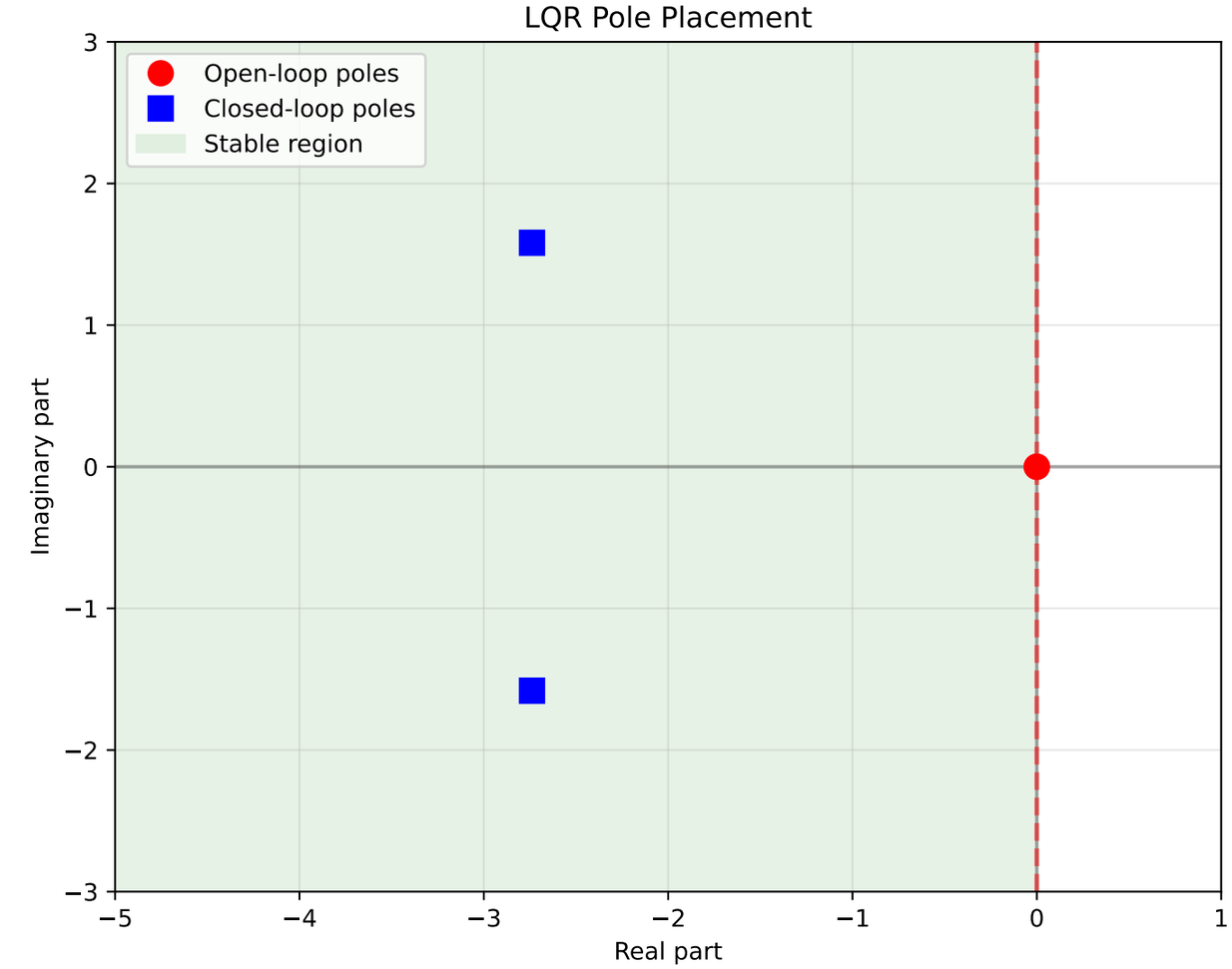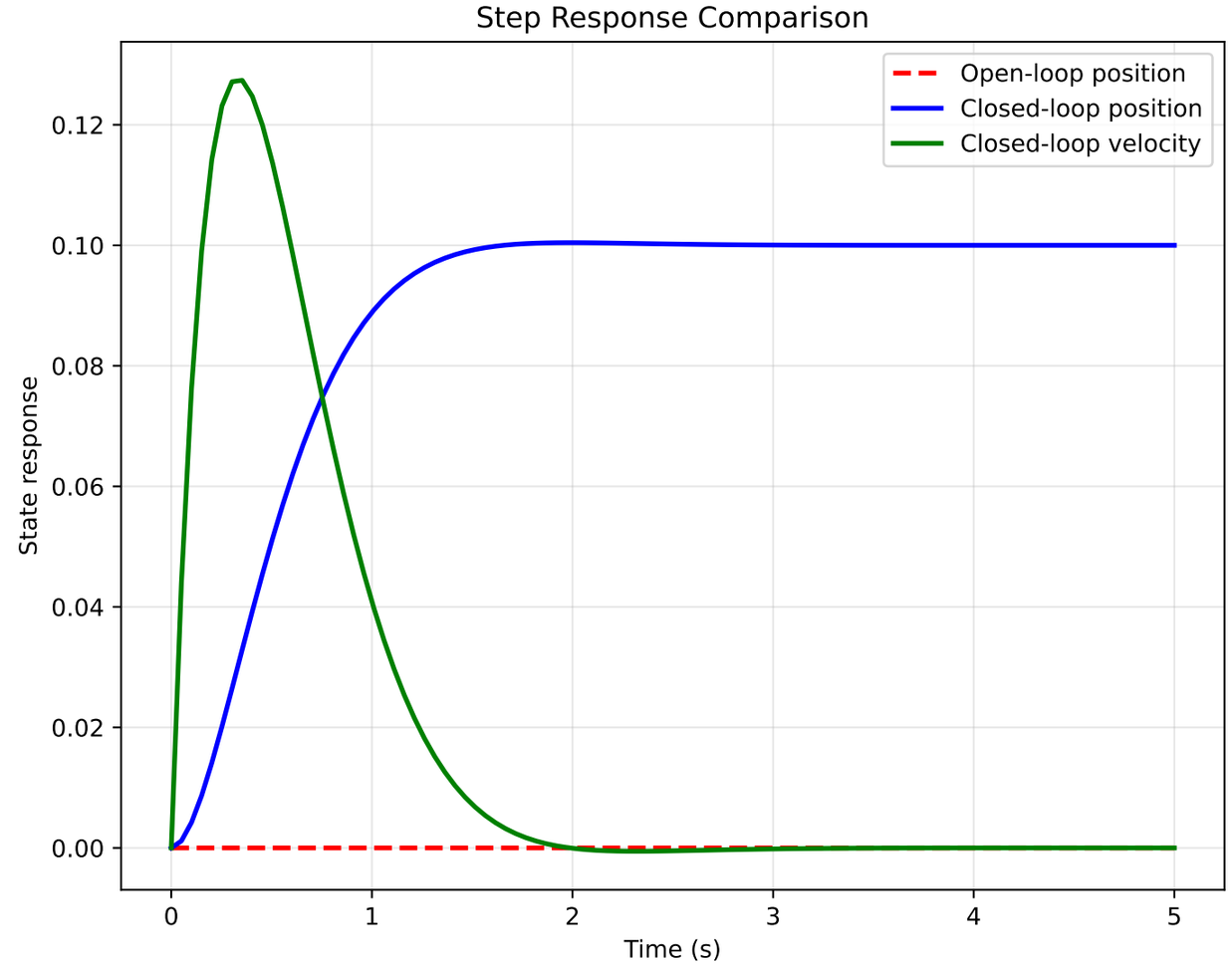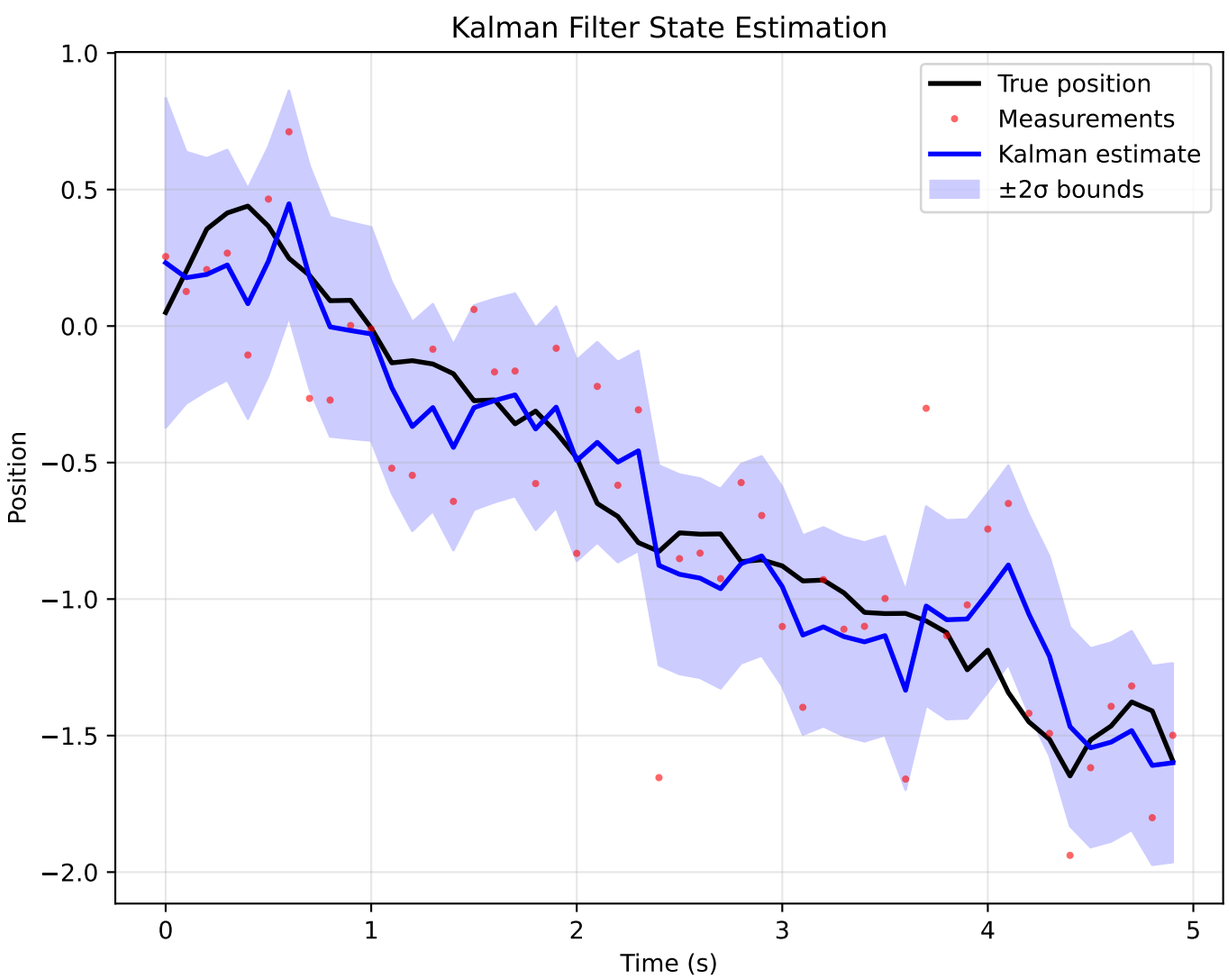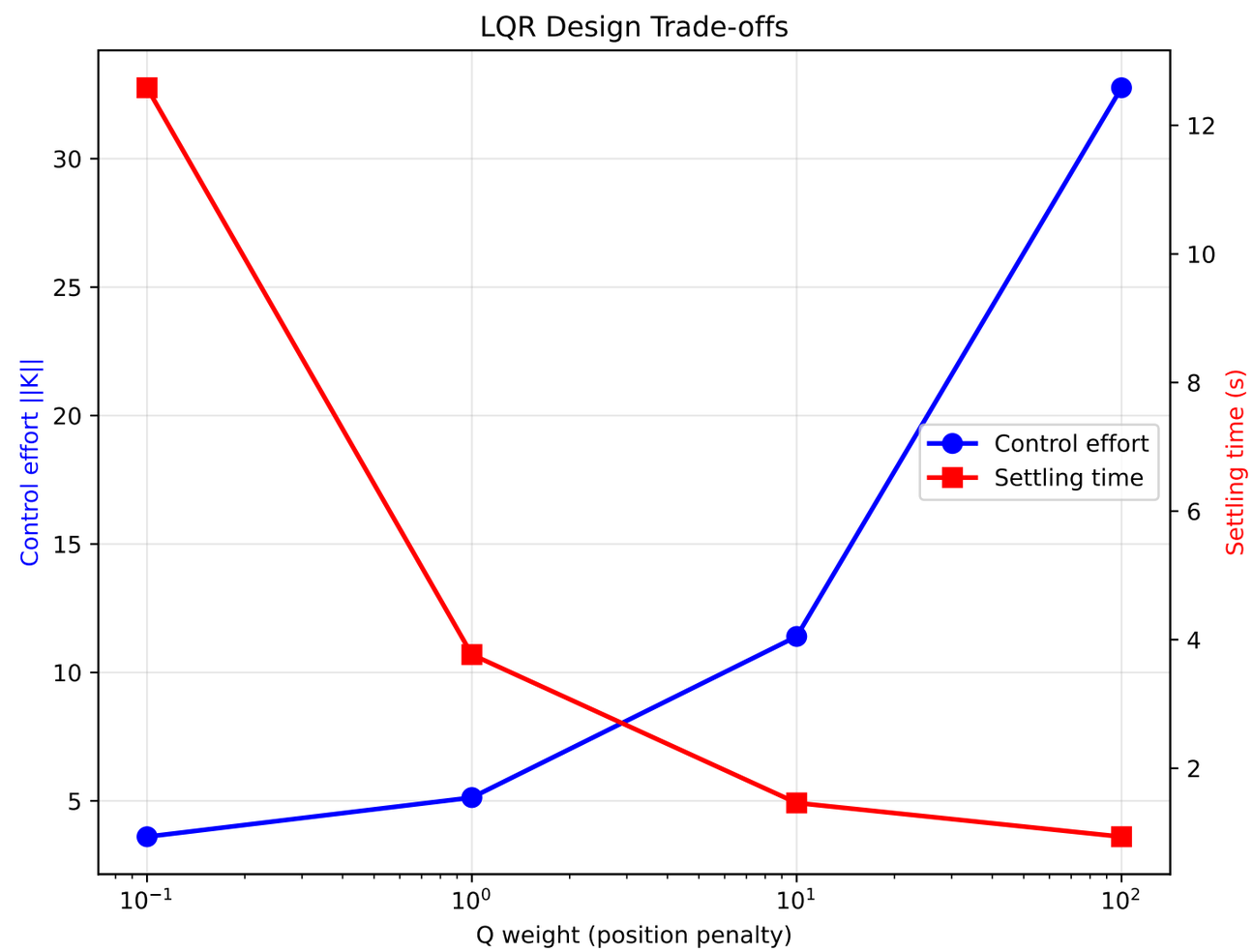Optimal Control Theory and State Estimation