ELECENG 3CL4 Lab 1

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Simulation Environment

Familiarization Exercises

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Base settings, proportional gain is 1, no derivative gain

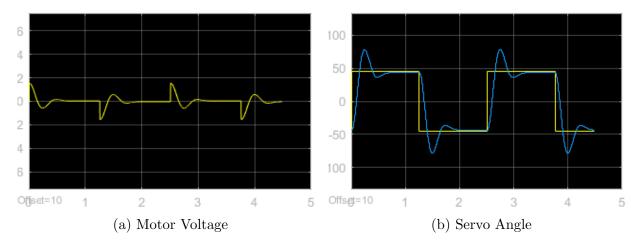


Figure 1: Proportional gain: 1, Derivative gain = 0

ix Increase proportional gain to 2

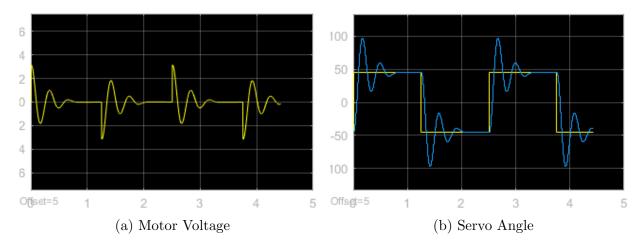


Figure 2: Proportional gain: 2, Derivative gain = 0

\mathbf{X}

Increase proportional gain to 4

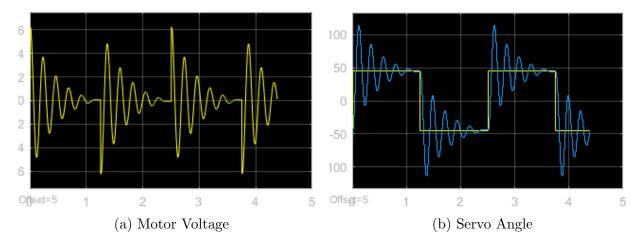


Figure 3: Proportional gain: 4, Derivative gain = 0

\mathbf{xi} Increased derivative gain to 0.1

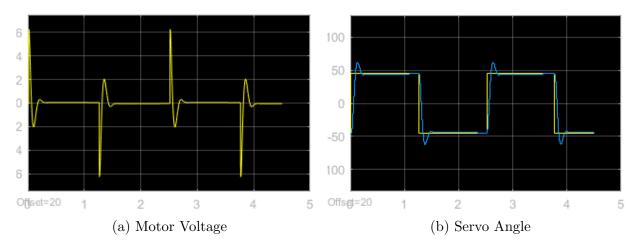


Figure 4: Proportional gain: 4, Derivative gain = 0.1

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Increase derivative gain to 0.15

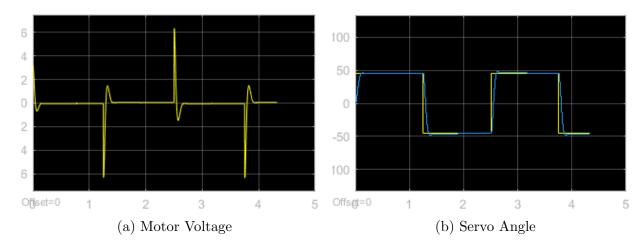


Figure 5: Proportional gain: 4, Derivative gain = 0.15