

ECE 6780 Lab 07

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Post lab 07

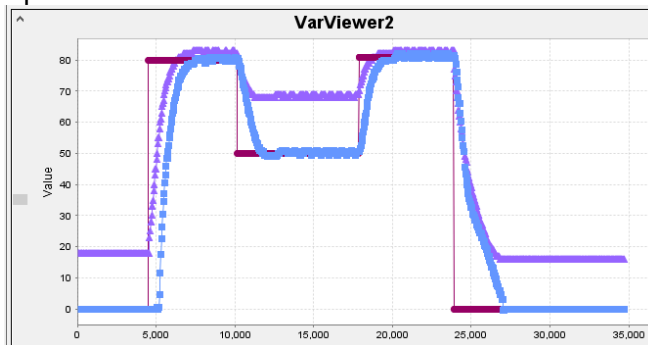
1. What gain parameters did you end up using for your PI controller?

I ended up picking 8 for K_p and K_i .

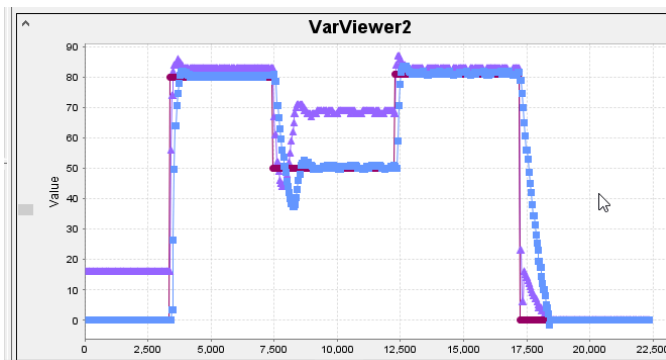
- Describe the response of the system to speed changes.

When using 1 for the gain parameters the motor responds sluggish while with 8 it responds faster and tends to over respond but correct quickly. When using 255 for the gain settings the motor over reacts to inputs but takes longer to bounce back.

$K_p = 1$ & $K_i = 1$



$K_p = 8$ & $K_i = 8$



$K_p = 255$ & $K_i = 255$

