

ME 333 Homework 7

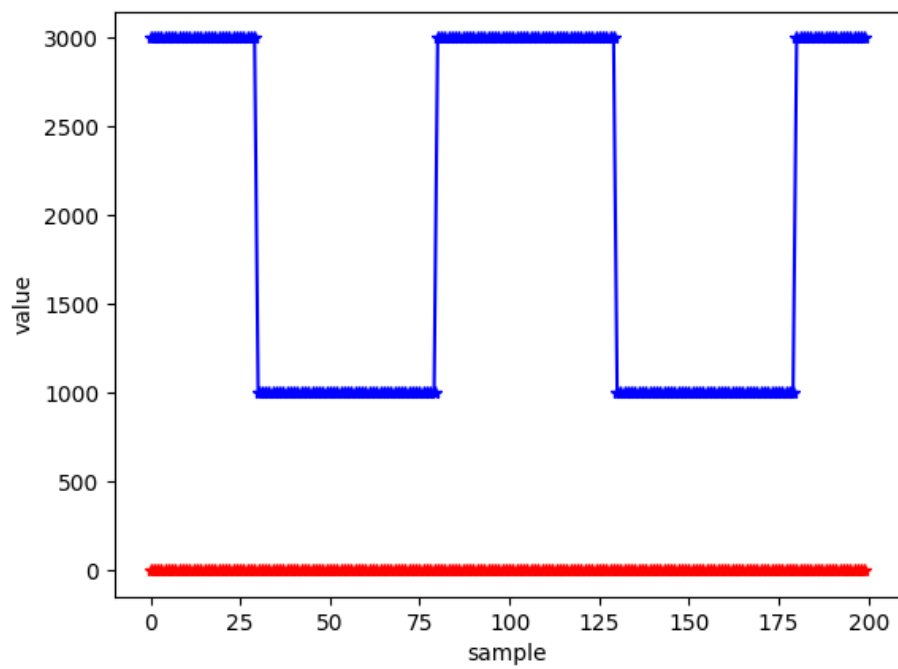
Marshall Johnson

February 22, 2022

Chapter 24: Feedback Control of LED Brightness

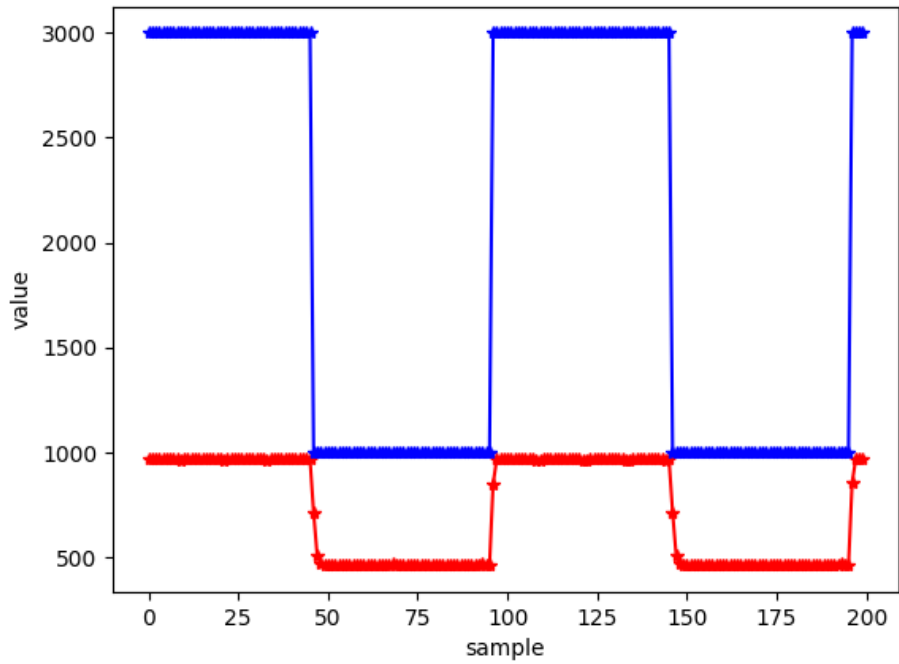
24.5 Plotting Data in Python

The following chart was generated using matplotlib in Python.



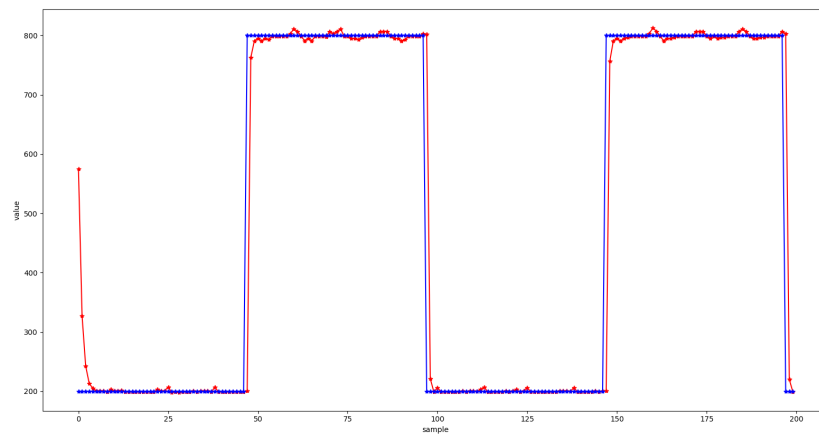
24.7 Reading the ADC

Chart showing REFArray (blue) and ADCArray (red):



24.8 PI Control

Plot of PI controller performance using $K_i = 0.007$ and $K_p = 0.05$:



See `good_gains.mov` for demonstration using the gains above. For a demonstration using bad gains, see `bad_gains.mov`.