Lab report 4 (rubric)

Lab part 2

Comparator circuit: (3.5 points)

Draw the noisy signal $V_i(t)$ when F = 1, F = 0, F = 0.5. What is the output $V_o(t)$ when F= 1, F = 0, F = 0.5. Explain the behavior of LED 1 and LED 2 you observed in the lab with different POT settings

Schmitt trigger: (3.5 points)

Explain how the Schmitt trigger help eliminate chatter? Perhaps use a representative diagram showing how the threshold you computed helps eliminate chatter.

Lab part 3

Timer circuit : (3 points)

When does the capacitor charge? At what time did the LED turn on? How can you change the time the LED turns on?