

EE1910 Lab 4: More LEDs, Analog?

Objectives

- Examine persistence in LEDs
- Create a PWM signal

Prelab

- Review the PWM basics slides

student
check off

Assignment

Part 1: Connect 2 LEDs to your MSP432 system. Write a program to set the brightness of one LED to 100% (always on) and the second LED to – 0%, 20%, 40%, ... 100%) in a loop, changing the brightness every half second. Print the current percentage to the serial monitor. Use a 20Hz PWM base frequency.

Note: this is very messy given the tools we have learned so far

Check Off

- Demo and document your Lab4 program

100%

Checkoff due by 4:00 pm Friday of the lab week (in-person or via Teams chat)

Submit (in the box): flow diagram, code, schematic - due 4:00 pm, Friday of the lab week.