EE1910 Lab 6: Analog Inputs

Objectives

- Use the adc0_setup and adc0_convert functions to measure analog signals
- Understand potentiometers and photo sensors

	student	
Prelab	check off	
Review the Analog Read notes		
Review the Potentiometer Basics notes		
Review the PhotoCell spec		

Assignment

- Part1: Create an MSP432 program that reads the output of the $1K\Omega$ potentiometer. Print the results out to the console (in ohms). Only print the value and the word Ohms to speed up the display.
- Part 2: Create an MSP432 program that reads the output from the PhotoCell. Print the relative light intensity (% of max) to the console. Note: you must first characterize the range of light available to properly calculate the %. Your program must use a function to calculate the %.

Check Off

٠	Demo and document your potentiometer program	50%
•	Demo and document your PhotoCell program	50%

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

Submit (in the box): flow diagram(2), schematic(2), and code(2) - due 4:00 pm, Friday of the lab week.