

# EE1910 Lab 8: Analog Inputs and Arrays

## Objectives

- Use the adc0 functions to measure analog signals
- Using arrays

## Prelab

- Review the Analog Read notes
- Get a 4.7uF capacitor from the tech center
- Review the RC circuit notes

student  
check off

## Assignment

Part 1: Develop your code to alternately pull the RC circuit input high and low. After each input change take 100 adc readings of the RC circuit output. Each output value should be stored into a single 100 element array. After each set of 100 readings, print the results to the console. E.g. pull high, 100 readings, print, pull low, 100 readings, print,

...

\*\* The analog readings should be at 4ms intervals

\*\* The output range should be 0V – 3.3V

## Check Off

- Demo and document your RC 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, schematic, and code - due 4:00 pm, Friday of the lab week.**