

## Definitions for Week 4

- peripheral devices and microcontrollers
- timers vs. counters
- timer features; up/down, compare/auto-reload, overflow/underflow flag, pre-scale, external source
- timer related features; capture, compare
- timer related feature; pulse width modulation
- timer functions; capture, compare, PWM
  - capture - stopwatch-external event
  - compare - alarm/delay
  - PWM - pulse generator; variable frequency and duty cycle
- timer0 - 16 bit read/write order