# ECE 340 Homework

1. List differences between the Core Timer and Timer 1.
2. Assume you want to configure Timer 1 to set T1IF every 50 ms with a clock prescale value 64. What is the appropriate value to write to PR1? What will be the actual elapsed time between setting T1IF? (assuming it is cleared in between)
3. With a prescale value of 64, what are the range and resolution for creating time delays? (i.e., intervals between T1IF being set)
4. Provide an equation for calculating the required step “interval” (or “delay”) in milliseconds for a desired rotations per minute (RPM) and mode of the stepper motor. (That is, use variable names, not numbers)