**2-2 Milestone One Submission**

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CS-350 Emerging Sys Arch & Tech

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**CS 350 Milestone One PWM Lab Guide**

1. What does pwmled2 set the PWM period to?

In the file pmwled2.c, the pwmPeriod that represents the PMW period is set to initialize at 3000 microseconds.

1. Which PWM\_xxx() function sets the PWM period?

The PMW\_xxx() functions that sets the PMW period is the PWM\_Params\_init(). The function can initialize the data structure in how the PMW drivers will operate enabling the launch pad to turn off and on.

1. Which PWM\_xxx() function sets the PWM duty cycle?

The PWM\_xxx() function that sets the PWM duty cycle is the PWM\_setDuty. By using the PWM\_setDuty it can set the stored value (pmw1 & 2) to the variables of having the switch on and off.

1. What is the purpose of the while(1) loop in pwmled2?  
   The purpose of the while(1) loop is to create a continuous loop for the statement of the lights to alternately turn off and on. When the switchLights is true, the pmw1 will turn on while the pmw2 is turned off and viceversa when the switchLights is false, it will reverse and turn the pmw1 off and pmw2 on.
2. What is the purpose of usleep() in the while(1) loop?  
   The purpose of the usleep() is to enable the a pause within the execution. In the code, usleep(time) is set to 1000000 microseconds (1 second) which causes the lights to have a “pause” and create a flickering effect.