Rajiv Dialani

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**Milestone One**

• What does pwmled2 set the PWM period to?

The PWM period is set to **3000 microseconds**.

• Which PWM\_xxx() function sets the PWM period?

The ‘PWM\_Params’ structure is initialized with the desired period value, and the ‘PWM\_open()’ function is used to open the PWM handle with the specified parameters, including the period. Therefore, ‘**PWM\_open()**’ function is responsible for setting the PWM period.

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

The ‘**PWM\_setDuty()**’ function is used to set the PWM duty cycle. It is called within the ‘while(1)’ loop to alternate the duty cycle of the PWM signals.

• What is the purpose of the while(1) loop in pwmled2?

The ‘while(1)’ loop is an infinite loop than continuously executes the blinking pattern for the yellow/orange and green LEDs. It controls the alternating behavior of the LEDs by setting their duty cycles in sequence.

• What is the purpose of usleep() in the while(1) loop?

The ‘usleep()’ function introduces a delay in microseconds between each state change of the LEDs. It ensures that there is a pause between turning on and off the LEDs, creating a visible blinking effect. Without this delay, the LED transitions would occur too quickly to be noticeable.

