**Milestone Three**

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CS 350 – Emerging Systems Architecture & Technologies

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The following are my responses to the questions from the CS-350 Milestone Three Timer Interrupt Lab Guide:

1. What is the purpose of the timerCallback() function?

To perform whatever actions we want to have happen. This is where the SM is implemented.

1. What does period mean in this context?

The amount of time until the timerCallback() function is called.

1. How does the Timer\_CONTINUOUS\_CALLBACK parameter impact the driver?

Timer\_CONTINUOUS\_CALLBACK is a non-blocking call. After Timer\_start() is called, the calling thread will continue execution. When the timer interrupt is triggered, the specified callback function will be called. The timer is automatically restarted and will continue to periodically generate interrupts until Timer\_stop() is called.

1. What is gpioButtonFxn0() used for?

This is the callback function for the GPIO interrupt on CONFIG\_GPIO\_BUTTON\_0. When Button 0 is pushed, this callback is called to perform a transition from one state to another.

1. What is the purpose of GPIO\_CFG\_IN\_INT\_FALLING?

This means that the interrupt occurs when the button is pressed. If instead, we had GPIO\_CFG\_IN\_INT\_RISING, the interrupt would then occur when the button is released.