

# **CSE 433 Embedded Systems**

## **STM HW 1**

**Due Date April 13, 2020**

### **Using the Timer of STM32**

Using a channel of a general purpose timer in STM32 do the following:

1. Using Down Count property and prescaler settings, change the overflow period to 500ms. And turn ON and OFF (blink) the LED on the board for 500ms intervals using the Timer.
2. Generate a square wave with 1ms period and output compare property of a timer.
3. Detect this (at part 2) generated signal's frequency using input capture property of another Timer Channel. Connect signal via wire.