## MISC INFORMATION

https://github.com/teaksoon/stemkraf

## PWM Pins and Timers:

Possible conflicts with Arduino Library Class/Functions by TeakSoon Ding (OCT-2021)

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Arduino Uno has 6 PWM Pins ( 3, 5, 6, 9, 10 and 11 ) that uses Timers for PWM. Arduino Uno (atmega328) has 3 Timers ( Timer 0, Timer 1 and Timer 2 )

Timer 0 ( PWM for Arduino Uno Pin 5, Atmega328 PD5 )
Timer 0 ( PWM for Arduino Uno Pin 6, Atmega328 PD6 )

Timer 1 ( PWM for Arduino Uno Pin 9, Atmega328 PB1 )
Timer 1 ( PWM for Arduino Uno Pin 10, Atmega328 PB2 )

Timer 2 ( PWM for Arduino Uno Pin 3, Atmega328 PD3 )
Timer 2 ( PWM for Arduino Uno Pin 11, Atmega328 PB3 )
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Some Arduino built-in library functions uses Timers internally in their codes and they can effect the functions of devices connected to the related Pins. The following popular class/functions from the Arduino Library that uses Timers.

- 1. delay(), millis() and micros() uses Timer 0. May interfere with devices connected to Arduino Pin 5 and Pin 6 that uses PWM.
- 2. Servo Class uses Timer 1. It disables PWM for Arduino Uno Pin 9 and Pin 10
- 3. tone() function uses Timer 2. May interfere with devices connected to Arduino Uno Pin 3 and Pin 11 that uses PWM.