APIs

Button

```
void BUTTON_vInit(u8 port, u8 pin);

u8 BUTTON_u8read(u8 port, u8 pin);
```

Motor

```
MOTOR_ERROR_t Motor_Init (u8 Port , u8 Pin1 , u8 Pin2);

MOTOR_ERROR_t Motor_Start (u8 Port, u8 Pin1,u8 Pin2, u8 speed, u8 direction);

MOTOR_ERROR_t Motor_Stop (u8 Port, u8 Pin1, Pin2);
```

DIO

```
DIO_ERROR_t GPIO_voidInit(void);

DIO_ERROR_t GPIO_vsetPIN_DIR(u8 port, u8 pin, u8

DIO_ERROR_t GPIO_vwrite_PIN(u8 port, u8 pin, u8 value);

u8 GPIO_u8read_PIN(u8 port, u8 pin);

DIO_ERROR_t GPIO_vtoggle_PIN(u8 port, u8 pin);

DIO_ERROR_t GPIO_vconnectpullup(u8 port, u8 pin);
```

Timer

`TIM_ERROR_t Timer_Init(ST_TMR0_Config_t* Timer_Config);`

`TIM_ERROR_t Timer_Start(u64 Ticks);`

`TIM_ERROR_t Timer_Read(u8* Value);`

`TIM_ERROR_t Timer_Set(u64 Value);`

PWM

`PWM_ERROR_t PWM_Init(ST_PWM_Config_t* PWM_Config);`

`PWM_ERROR_t PWM_Start (duty_cycle, frequency);`

`PWM_ERROR_t PWM_Stop(void);`