Main Function

PWM Function

```
void pwm_task(void *p) {
pwm1__init_single_edge(1000);
// Locate a GPIO pin that a PWM channel will control
// NOTE You can use gpio_construct_with_function() API from gpio.h
gpio_s pin = gpio__construct_with_function(GPIO__PORT_2, /*Pin*/ 0,
GPIO__FUNCTION_1);
// We only need to set PWM configuration once, and the HW will drive
// the GPIO at 1000Hz, and control set its duty cycle to 50%
pwm1__set_duty_cycle(PWM1__2_0, 50);
// Continue to vary the duty cycle in the loop
uint8_t percent = 0;
while (1) {
  pwm1__set_duty_cycle(PWM1__2_0, percent);
  if (++percent > 100) {
    percent = 0;
  vTaskDelay(100);
}
}
```