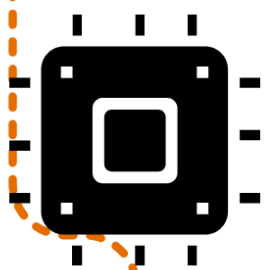


PWM DRIVER



[PCA9685]



github.com/KingPungy/IPASS-PCA9685

Met gebruik van de PCA9685 chip een
4dof robot arm aansturen via I2C

Scott Timmermans



```
void PWMDriver::setPWMFreq(float freq) {  
  
    freq *= 0.9;  
    float prescaleval = 25000000;  
    prescaleval /= 4096;  
    prescaleval /= freq;  
    prescaleval -= 1;  
  
    uint8_t prescale = floor(prescaleval + 0.5);  
  
    uint8_t oldmode = read8(PCA9685_MODE1);  
    uint8_t newmode = (oldmode & 0x7F) | 0x10;  
  
    write8(PCA9685_MODE1, newmode);  
    write8(PCA9685_PRESCALE, prescale);  
    write8(PCA9685_MODE1, oldmode);  
  
    hwlib::wait_ms(5);  
  
    write8(PCA9685_MODE1, oldmode | PCA9685_AI);  
}
```

