mcu烧录

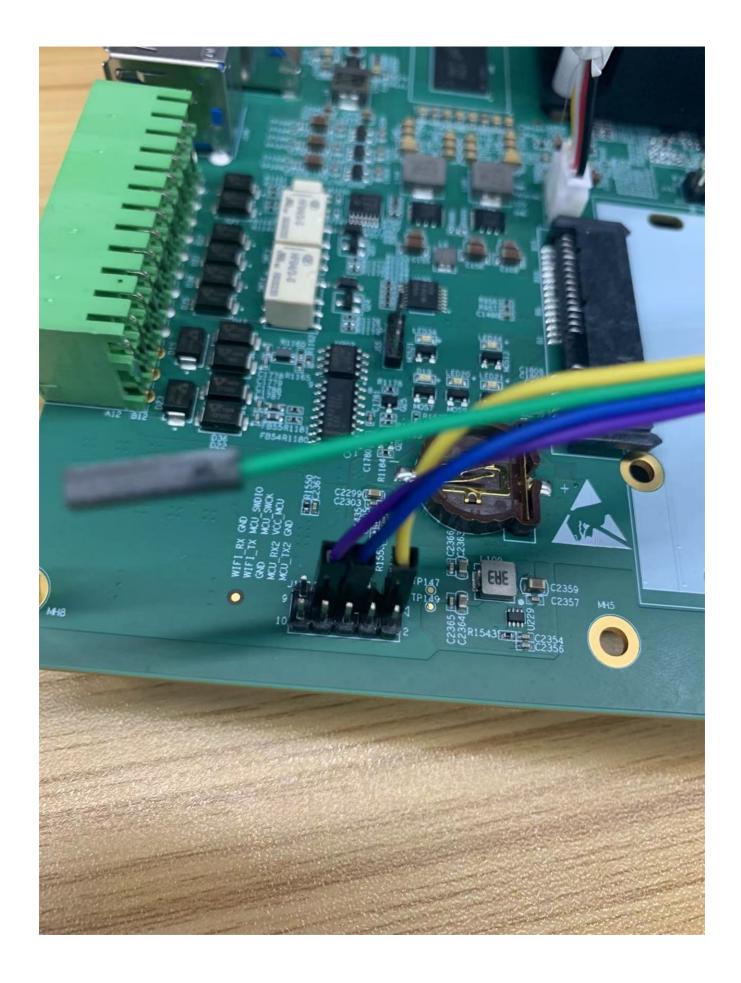
1. 安装ARM_MDK_keil

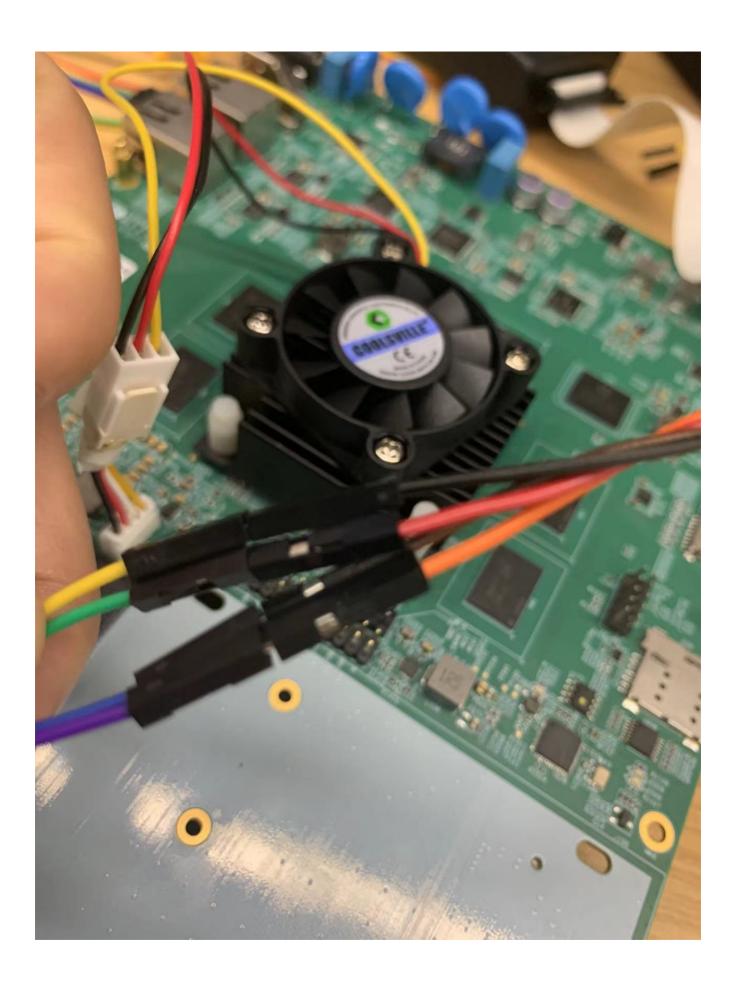
安装包可以网上下载或者从我这里拷贝

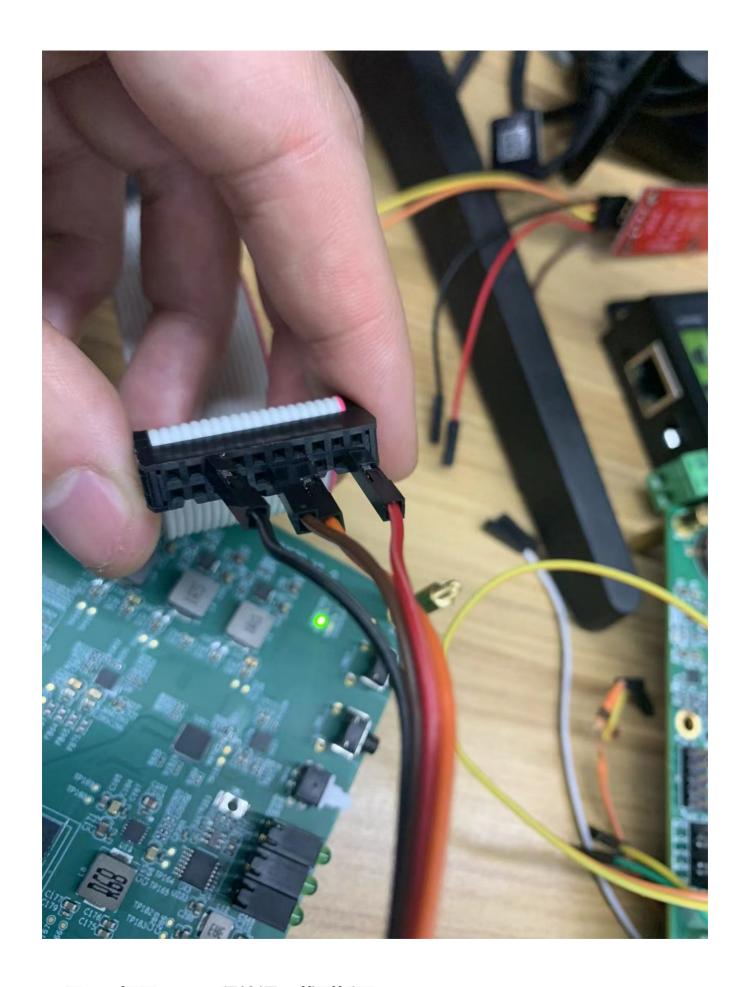
2. 获取mcu工程代码

在公司gitlab上下载或者从我这里拷贝

3. 硬件接线







4. 用keil打开mcu工程编译下载到板子

```
list
                                                                               2024/2/4 18:27
                                                                                                                         文件夹
                                                                               2024/2/20 10:36
                                                                                                                         文件夹
    output
   GD32303C START.uvguix.Administrator
                                                                               2024/2/20 10:36
                                                                                                                         ADMINISTRATO...
                                                                                                                                                                    106 KB
   GD32303C START.uvoptx
                                                                                                                         UVOPTX 文件
                                                                               2024/2/4 18:27
                                                                                                                                                                      20 KB
   ₩ GD32303C START.uvprojx
                                                                               2024/1/16 16:04
                                                                                                                         礦ision5 Project
                                                                                                                                                                      22 KB
   JLinkLog.txt
                                                                               2024/2/20 11:12
                                                                                                                         7 KB
   JLinkSettings.ini
                                                                               2023/9/6 11:20
                                                                                                                         配置设置
                                                                                                                                                                       1 KR
   📓 Nu Link Driver.ini
                                                                               2019/10/31 16:42
                                                                                                                         配置设置
                                                                                                                                                                      16 KB
D:\bsp\codes\x3 qd32f303cbt6\GD32303C\Proiects\GD32F303 X3a\MDK-ARM\GD32303C START.uvproix - µVisio
 File Edit View Project Flash Debug Peripherals Tools SVCS Window Help
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 core_cm4.h i startup_gd32f30x_xd.s system_gd32f30x.c i main.c i gpio.c i gd32f30x_gpio.c i gd32f30x_gpio.h i GPIOLIKE51.h i gd32f30x_rd.
                                                            ysteringuezisov.cus system_guzzisov.c. mamm.c gpiot. guszisov.
//拉高12v gpio
gpio_init(GFIOA, GPIO_MODE_OUT_PP, GPIO_OSPEED_50MH2, GPIO_PIN_5);
gpio_bit_set(GFIOA, GPIO_PIN_5);
pw_status = SET;
printf("12v ok \r\n");
☐ SProject: GD32303C_START
    ⊕ 🚂 GD32303C_START
       Application
                                                243
          main.c
                                                244
          ⊕  systick.c
                                                           CR_delay_ms(50000);
printf("delay_ok \r\n");
          ⊕ _ _ corerain_delay.c
                                                247
                                                248
       //监测和控制上下电
       ⊕ □ GD32E30x Peripherals
                                                            //监测126mg/
gpio_init(GPIOA, GPIO_MODE_OUT_PP, GPIO_OSPEED_SOMHZ, GPIO_PIN_5);
gpio_init(GPIOA, GPIO_MODE_IN_FLOATING, GPIO_OSPEED_SOMHZ, GPIO_PIN_8);
gpio_init(GPIOB, GPIO_MODE_IN_FLOATING, GPIO_OSPEED_SOMHZ, GPIO_PIN_15);
while (1) {
//监测和控制上下电
       GD32F30x START
                                                251
                                                252
       E Startup
                                                253
254
           startup_gd32f30x_xd.s
       ⊕ 🛅 Doc
                                                255
                                                                  256
                                                257
258 [
                                                259
                                                                             if (pw_status == SET) {
    gpio_bit_set(GPIOA, GPIO_PIN_5); //上电
    wait_button_power_up();
                                                260
                                                263
                                                                                   gpio_bit_reset(GPIOA, GPIO_PIN_5); //下电
wait_button_power_up();
                                                264
                                                265
                                                267
                                                268
                                                                  if (RESET == gpio_input_bit_get(GPIOB, GPIO_PIN_15) && pw_status == SET) {
   CR delay ms(100);
 oldsymbol{u}_{i} or head from Exercises for the first form of 
                                                                                                                                          Window Help
              Edit View
                                       Project Flash
                                                                                      Peripherals Tools
                                                                                                                           SVCS
                                                                     Debua
                                                                           (Cri
                                                                                      HAL MspInit
                                               GD32303C START
  Project
                                                                   ДX
                                                                                                                          startup gd32f30x xd.s
                                                                                                core cm4.h
                                                                                                                                                                                      system gd32f30x.c
   □ □ Project: GD32303C_START
                                                                                             240
                                                                                                                     //拉高12v qpio
          241
                                                                                                                     gpio init(GPIOA, GPIO MODE OUT PP, GPI(
                                                                                                           //
                                                                                             242
                                                                                                                     gpio bit set(GPIOA, GPIO PIN 5);
                                                                                                           //
                 Application
                                                                                                                     pw status = SET;
                                                                                             243
                       ⊕ ain.c
                                                                                                                     printf("12v ok \r\n");
                                                                                             244
                                                                                                           //
                       ⊕ systick.c
                                                                                             245
                                                                                                                    CR delay ms(50000);
                                                                                                           //
                       ⊕ gd32f30x_it.c
                                                                                             246
                                                                                                                    printf("delay ok \r\n");
                                                                                             247
                       248
                 //监测和控制上下电
                                                                                             249
                 //监测i2c命令
                                                                                             250
                 251
                                                                                                                     gpio init(GPIOA, GPIO MODE OUT PP, GPI(
                                                                                             252
                                                                                                                     gpio_init(GPIOA, GPIO_MODE_IN_FLOATING,
                 253
                                                                                                                     gpio init(GPIOB, GPIO MODE IN FLOATING,
                        startup_gd32f30x_xd.s
                                                                                             254
                                                                                                                     while (1) {
                 ⊕ • Doc
                                                                                             255
                                                                                                                                //监测和控制上下电
```

首先双击打开GD32303C_START.uvprojx,如果还没编译则点击第二幅图的编译按钮,最后点击load按钮就可以完成烧录。