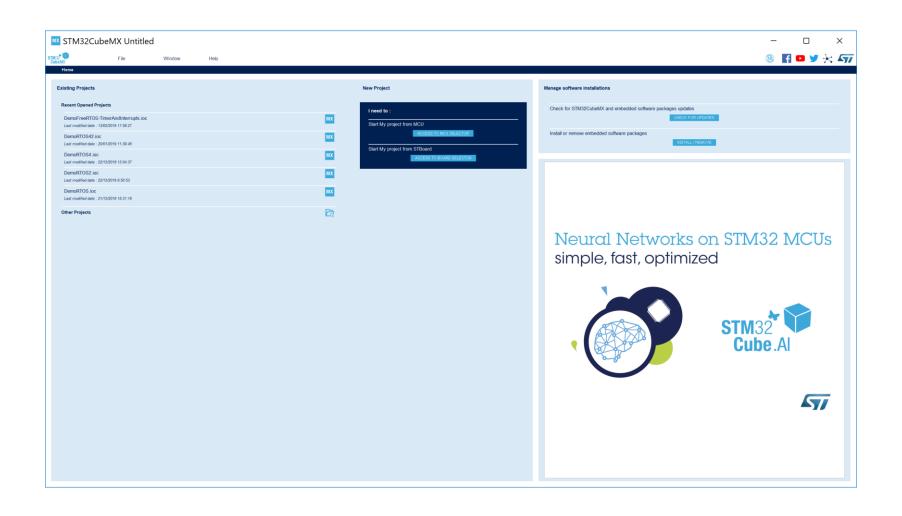
### USCD Embedded C Assignment 1

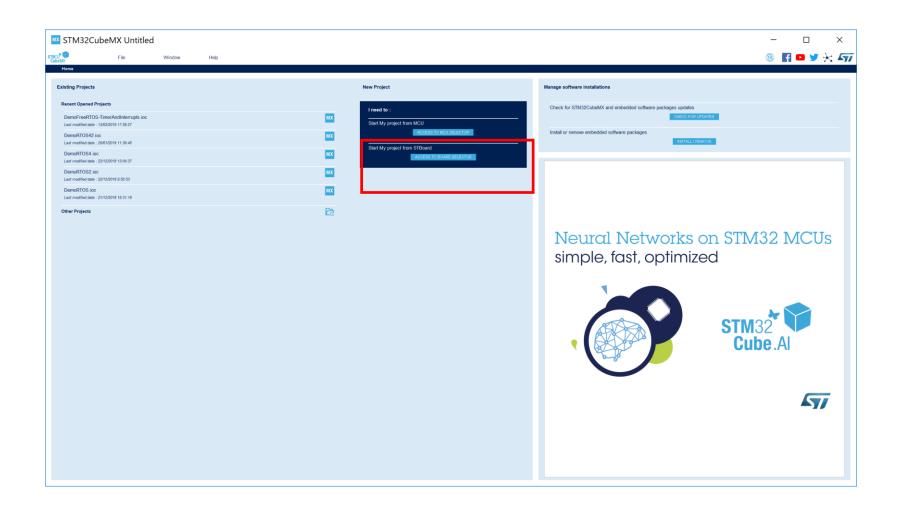
By Norman McEntire

Norman.mcentire@gmail.com

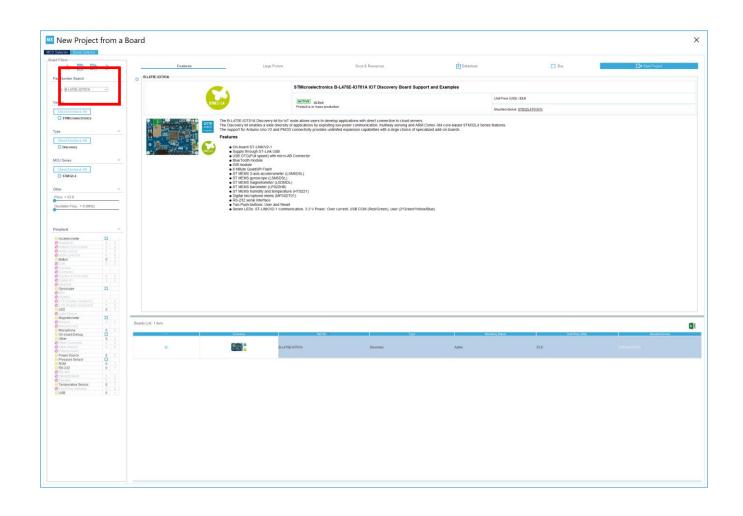
#### Step 1. Startup STM32CubeMX



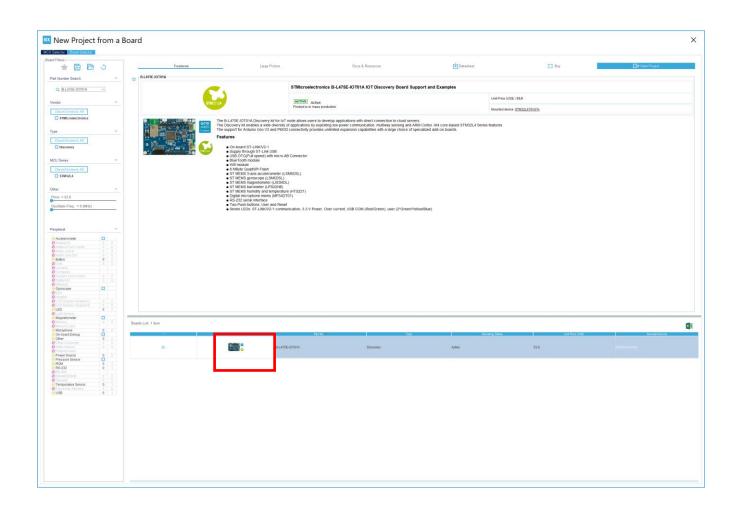
#### Step 2. Access Board Selector



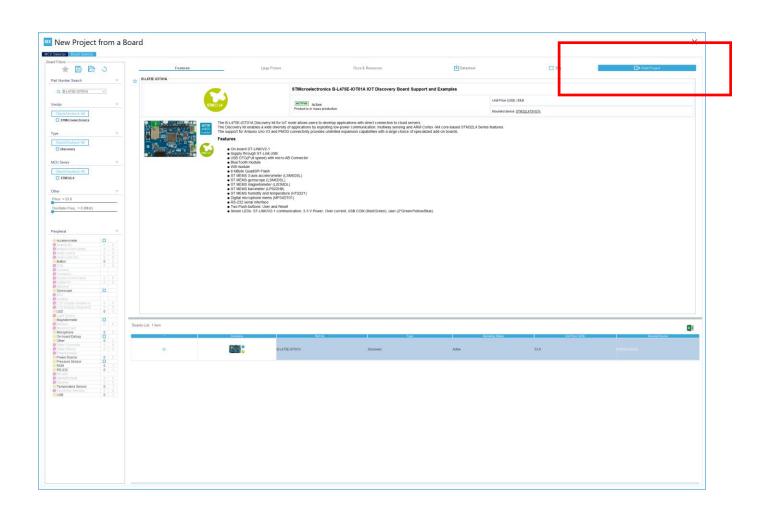
#### Step 3. Enter "B-L475E-IOT01A" Board



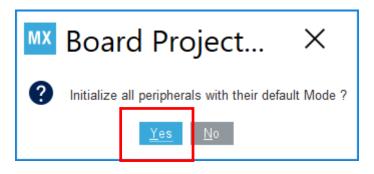
#### Step 4. Select Board Photo



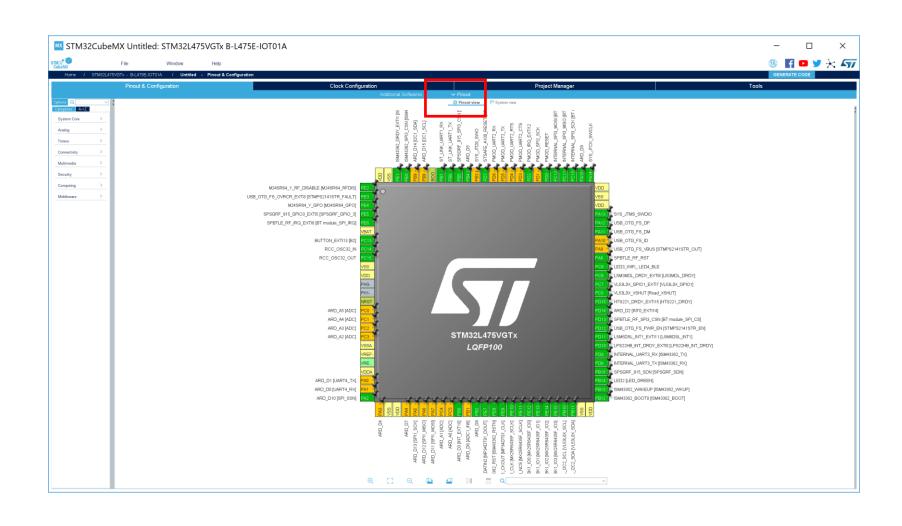
#### Step 5. Select "Start Project"



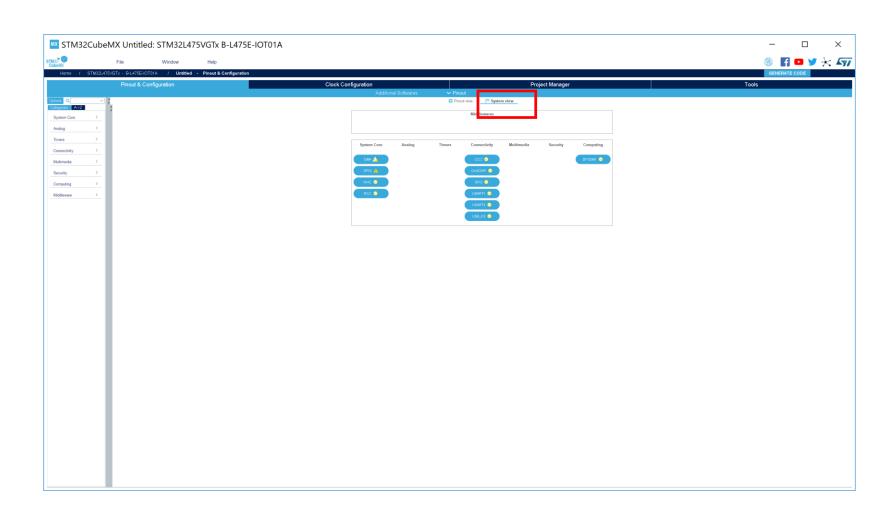
# Step 6. Select **YES** (initialize all peripherals with the default mode)



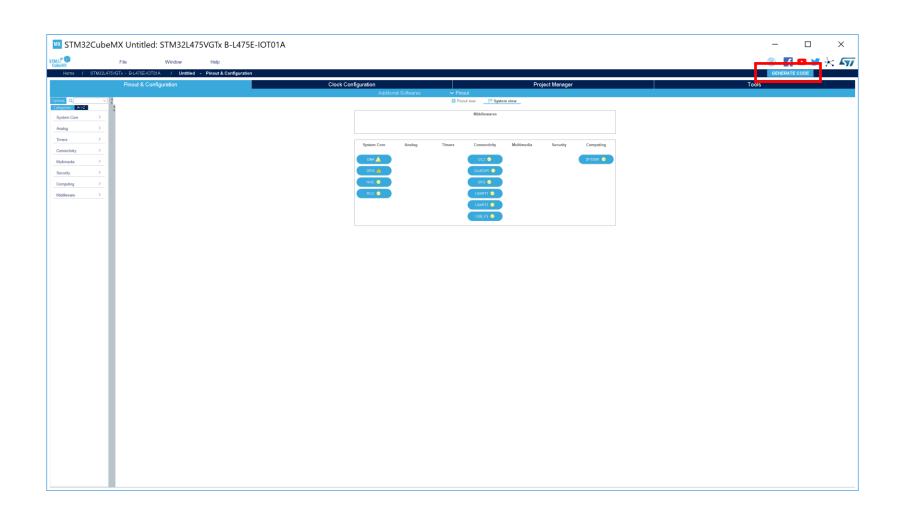
#### Step 7. Observe Results (Pinout View)



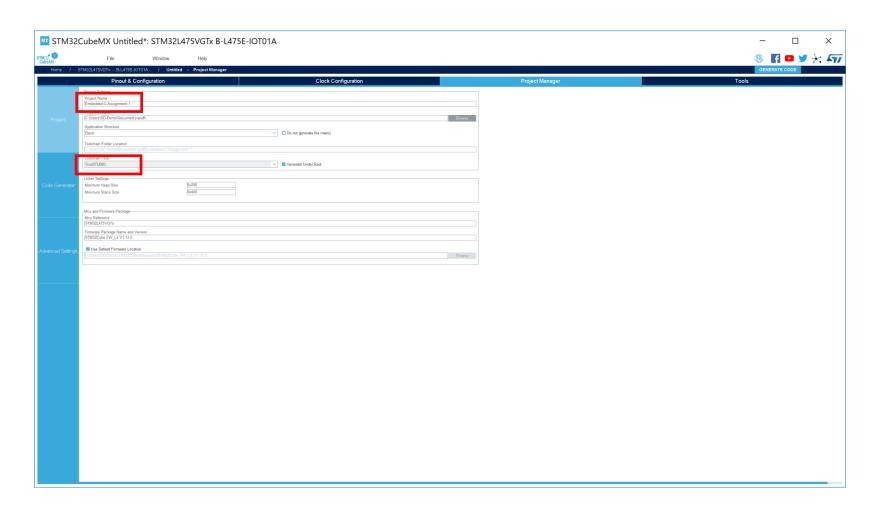
#### Step 8. Observe Results (System View)



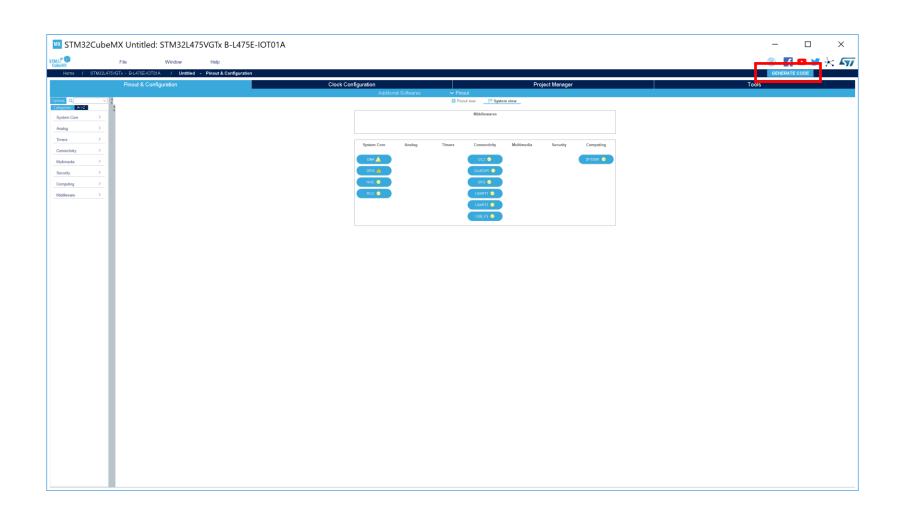
#### Step 9. Select "Generate Code"



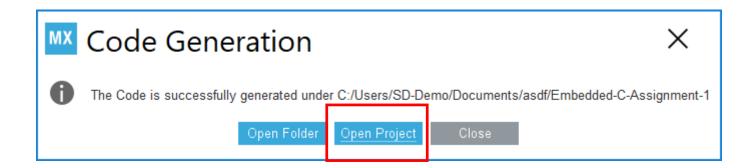
## Step 10. Enter "Embedded-C-Assigment-1" and select TrueStudio as IDE



#### Step 11. Select "Generate Code"



#### Step 12. Select "Open Project"

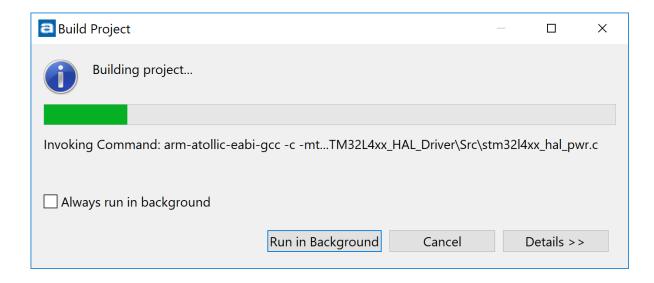


#### Step 13. Resulting Project

✓ Embedded-C-Assignment-1 Includes Drivers ➤ CMSIS STM32L4xx\_HAL\_Driver > 🚹 main.h stm32l4xx\_hal\_conf.h > li stm32l4xx it.h > 🖻 main.c > li stm32l4xx\_hal\_msp.c > c stm32l4xx\_it.c system\_stm32l4xx.c startup Embedded-C-Assignment-1.elf.launch Embedded-C-Assignment-1.ioc STM32L475VG\_FLASH.ld **@** syscalls.c T --- DTOC -----

#### Step 14. Build Project





#### Step 15. Results of Build

Generate build reports done

```
🛅 Build Analyzer 🚢 Static Stack Analyzer 🛣 Problems 🥒 Tasks 📮 Console 🖾 🗏 Properties
CDT Build Console [Embedded-C-Assignment-1]
arm-atollic-eapi-gcc -c -mtnump -mcpu=cortex-m4 -mtloat-api=nard -mtpu=tpv4-sp-dib -std=gnull -D W
arm-atollic-eabi-gcc -c -mthumb -mcpu=cortex-m4 -mfloat-abi=hard -mfpu=fpv4-sp-d16 -std=gnu11 -D w
arm-atollic-eabi-gcc -c -mthumb -mcpu=cortex-m4 -mfloat-abi=hard -mfpu=fpv4-sp-d16 -std=gnu11 -D w
arm-atollic-eabi-gcc -c -mthumb -mcpu=cortex-m4 -mfloat-abi=hard -mfpu=fpv4-sp-d16 -std=gnu11 -D w
arm-atollic-eabi-gcc -c -mthumb -mcpu=cortex-m4 -mfloat-abi=hard -mfpu=fpv4-sp-d16 -std=gnu11 -D w
<u>arm-atollic-eabi-gcc</u>-c-mthumb-mcpu=cortex-m4-mfloat-abi=hard-mfpu=fpv4-sp-d16-std=gnu11-D w
arm-atollic-eabi-gcc -o Embedded-C-Assignment-1.elf Drivers\STM32L4xx HAL Driver\Src\stm32l4xx hal.
<del>C:\Program Files (x86)</del>\Atollic\TrueSTUDIO for STM32 9.2.0\ide\jre\bin\java -jar C:\Program Files (x
Generate build reports...
Print size information
                                     hex filename
   text
           data
                            dec
                    bss
                                    383c Embedded-C-Assignment-1.elf
  11204
             12
                   3180
                          14396
Print size information done
Generate listing file
Output sent to: Embedded-C-Assignment-1.list
Generate listing file done
```