How to compile STM32 with eclipse

Geeetech R&D 2018/5

1. Install java

http://www.geeetech.com/OpenSource/eclipse/chromeinstall-8u171.exe (we choose 32bit version)

2. Download and unzip

Toolchains: http://www.geeetech.com/OpenSource/eclipse/arm-none-eabi-gcc-8.1.0-180502-win32.7z ,

Gnu mcu eclipse : http://www.geeetech.com/OpenSource/eclipse/gnumcueclipse4.3.2-oxygen-win32x86.zip ,

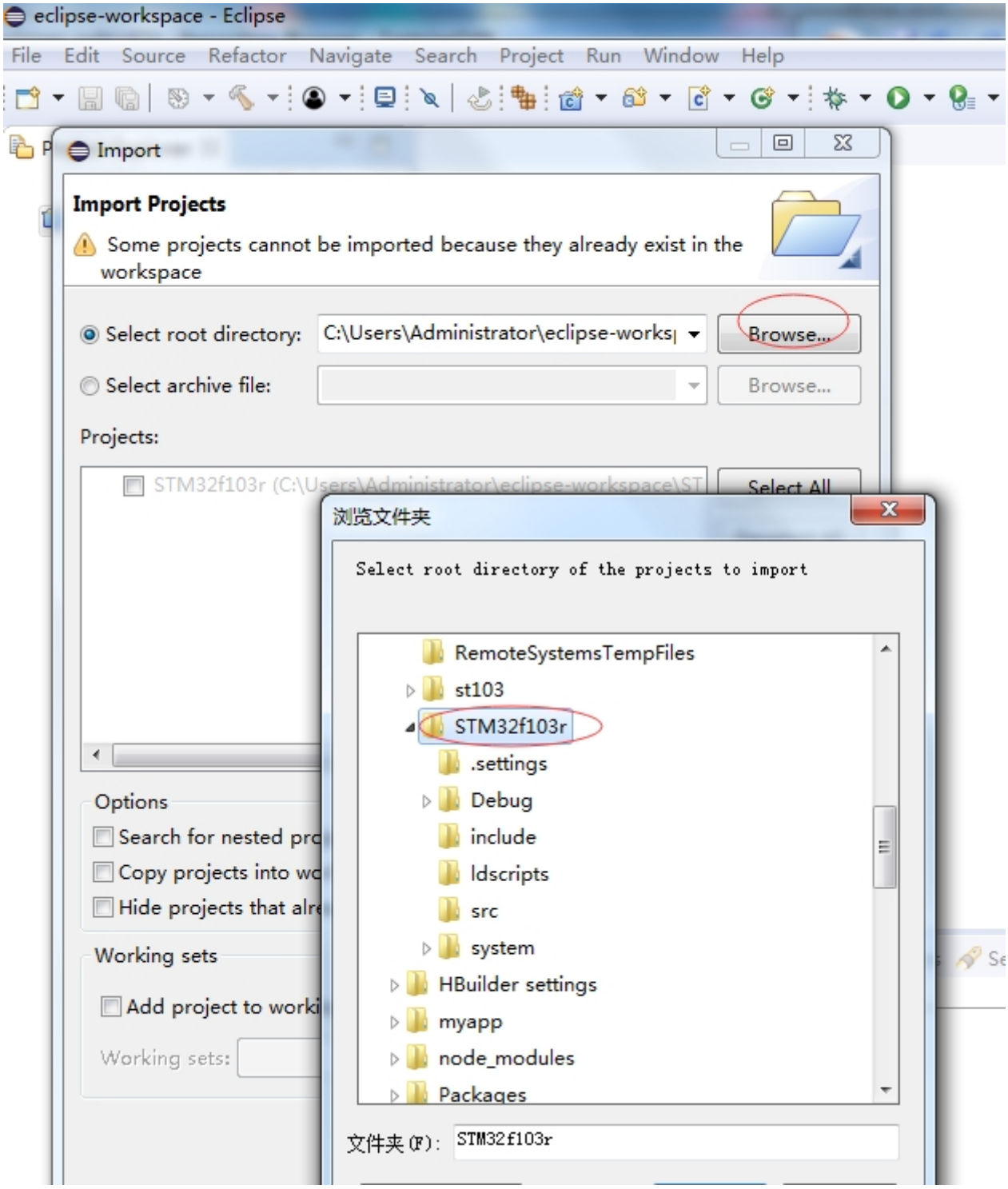
3D printer source code: STM32f103r.zip

2.1 run eclipse

After unzip, go to path: gnumcueclipse4.3.2-oxygen-win32x86\eclipse run eclipse.exe

2.2 Import Project

file → Import→General→Existing Projects into Workspace



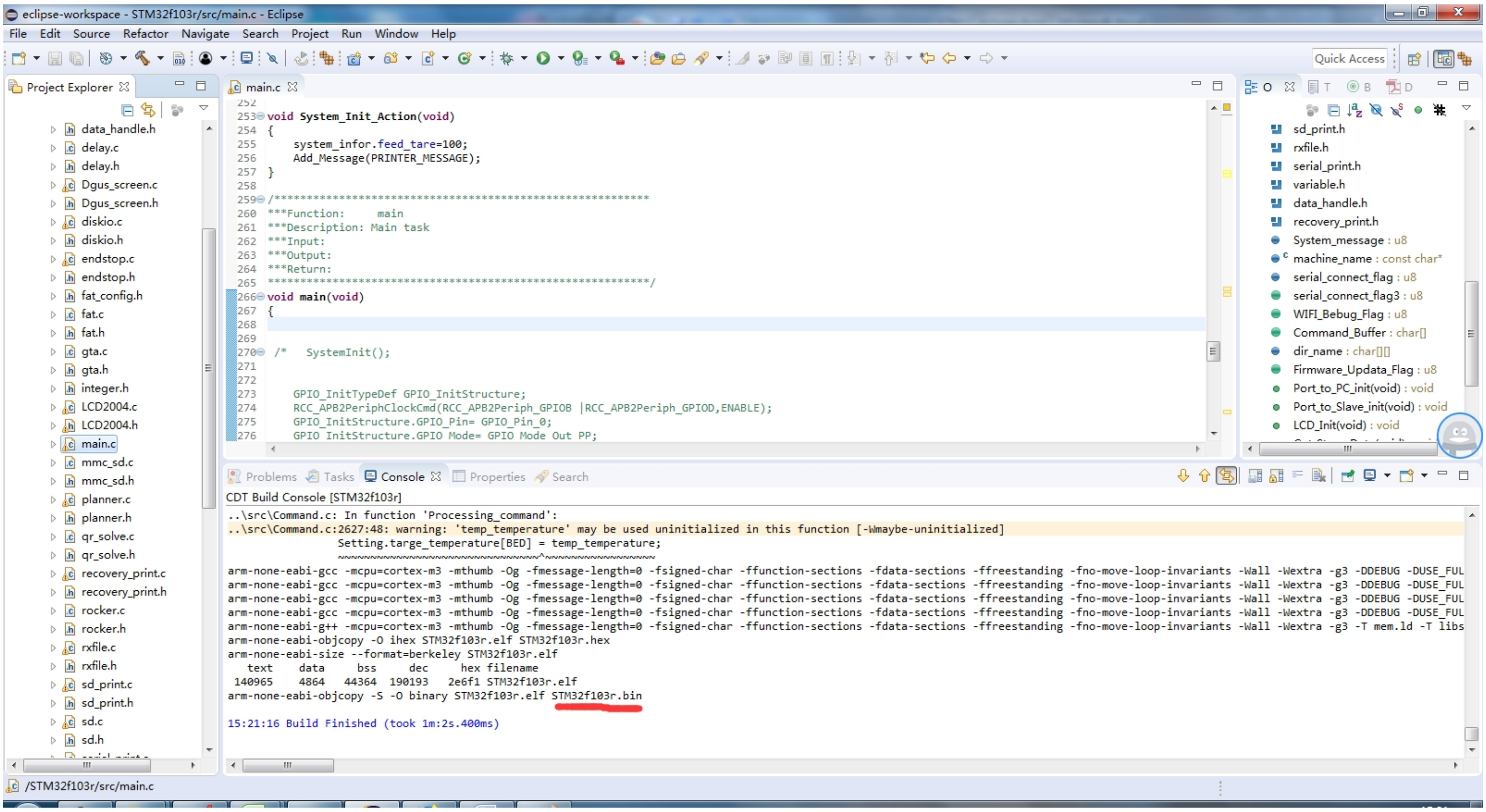
2.3 Change arm gcc tool chain path

Window→Preferences→MCU→Global ARM Toolchains Paths→Browse and choose the toolchains bin path.

For example “E:\GTM32\arm-none-eabi-gcc-8.1.0-180502-win32\arm-none-eabi-gcc-8.1.0-180502\bin”

2.4 Build project

Run→Build project



3. Flash firmware to 3D printer

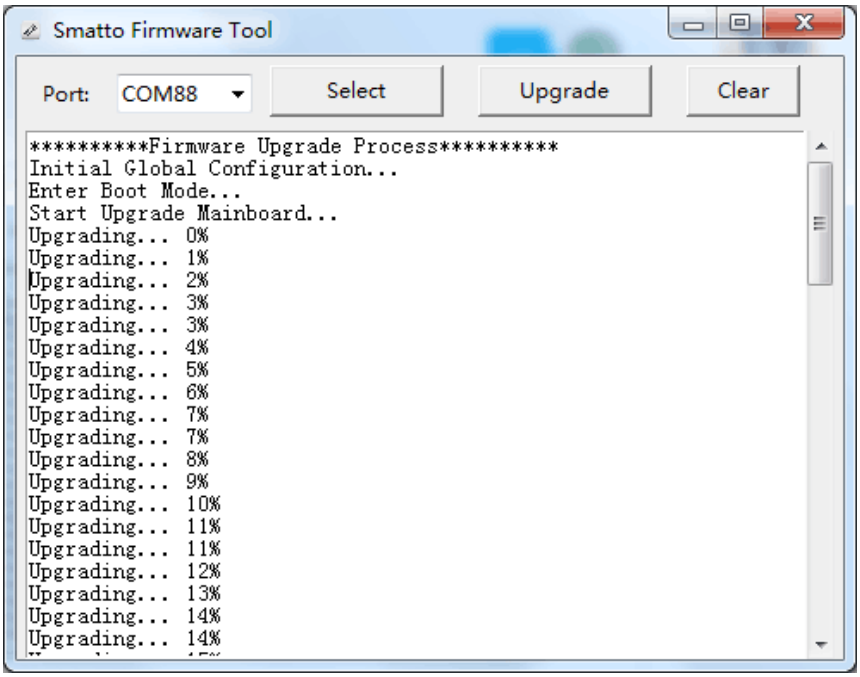
Download tools: smatto_firmware_tool.zip

https://github.com/Geeetech3D/Smartto/blob/master/tools/smatto_firmware_tool.zip?raw=true

3.1 Run main.exe

3.2 Choose the firmware bin file, for example: C:\Users\Administrator\eclipse-workspace\STM32f103r\Debug\STM32f103r.bin

3.3 Click Upgrade, wait for upgrading 100%.


Smatto Firmware Tool
Port:
COM88
Select
Upgrade
Clear
**********Firmware Upgrade Process**********
Initial Global Configuration...
Enter Boot Mode...
Start Upgrade Mainboard...
Upgrading... 0%
Upgrading... 1%
Upgrading... 2%
Upgrading... 3%
Upgrading... 3%
Upgrading... 4%
Upgrading... 5%
Upgrading... 6%
Upgrading... 7%
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