

Based on

<https://github.com/df8oe/UHSDR/wiki/Windows-10-x64-Compiler-Setup-and-Build-Environment>

Summary of <https://gnu-mcu-eclipse.github.io/install/> below:

- Overview here: <https://gnu-mcu-eclipse.github.io/install/>
- Java from here <https://www.java.com/en/download/win10.jsp>
 - If you run 64 bit windows make sure to install 64 bit JRE from here <https://java.com/en/download/manual.jsp>
 - Install and test
- Gnu Arm toolchain from here, Win32 exe <https://developer.arm.com/open-source/gnu-toolchain/gnu-rm/downloads>
 - Execute. Installs in C:\Program Files (x86)\GNU Tools ARM Embedded\7 2017-q4-major
 - See <https://gnu-mcu-eclipse.github.io/toolchain/arm/install/>
- Download Gnu Arm Windows build tools from here <https://github.com/gnu-mcu-eclipse/windows-build-tools/releases>
 - Copy all .exe files from "bin" directory from downloaded .zip to C:\Program Files (x86)\GNU Tools ARM Embedded\7 2017-q4-major\bin
 - See <https://gnu-mcu-eclipse.github.io/windows-build-tools/install/>
- Install J-Link from here <http://www.segger.com/jlink-software.html> (If you have J-Link..)
 - See <https://gnu-mcu-eclipse.github.io/debug/jlink/install/>
 - Download from here <https://www.segger.com/downloads/jlink/>
 - Will install in C:\Program Files (x86)\SEGGER\JLink_V630d
- Install Git for Windows from here <https://git-scm.com/download/win>
- Install OpenOCD as explained here <https://gnu-mcu-eclipse.github.io/blog/2018/01/23/openocd-v0-10-0-7-20180123-released/>
 - Install node.js "TLS" from here <https://nodejs.org/en/>
 - Open Command line window in win10. Enter

```
npm install xpm --global
```

This installs xpm package manager executable

- Open Command line window in win 10. Enter

```
xpm install @gnu-mcu-eclipse/openocd --global
```

to install Gnu MC Eclipse openOCD

- Install Qemu as explained here <https://gnu-mcu-eclipse.github.io/qemu/install/>
 - Download latest Windows exe from here <https://github.com/gnu-mcu-eclipse/qemu/releases>
 - Will install in C:\Program Files\GNU ARM Eclipse\QEMU\2.8.0-201612271623-dev
- Get latest MCU Eclipse from here <https://github.com/gnu-mcu-eclipse/org.eclipse.epp.packages/releases/>
 - Extract downloaded zip file to c:\ (otherwise path names may become too long)
- Run GNU MCU Eclipse
 - Follow work space preferences "global tool chain path" in <https://gnu-mcu-eclipse.github.io/eclipse/workspace/preferences/>
 - Follow tool chain path management in <https://gnu-mcu-eclipse.github.io/toolchain/path/>

Install PACKages CMSIS

- See <https://gnu-mcu-eclipse.github.io/plugins/packs-manager/>
- In Eclipse Help→Install new software, Work with: “GNU MCU Eclipse plug-ins”, Click “What is already installed”
 - Check that “GNU MCU C/C++ Packs (Experimental)” are installed, or install them
 - In Eclipse goto C/C++ packs perspective (hover over toolbar icons to find the icon with two boxes in orange yellow)
 - In this perspectiv, above middle window, click on the icon with the two yellow arrows, to update the packages definitions from all repositories
 - If any warnings that certain packages cannot be downloaded please click “ignore” to continue, as long as it does not concern the STMicrro packages we are interested in - STM32F7 and STM32H7
 - When finished, in left window, choose STMMicroelectronics
 - Install STM32F7 pack
 - In left window, click once on STM32F7 series.
 - Then select package in middle window
 - then above middle window click yellow box icon to install a local copy of the selected package
 - You will see status message “Install Packs” in bottom right of Eclipse window
 - Install STM32H7 in the same way

Set active project, check MCU set correctly

- See <https://gnu-mcu-eclipse.github.io/eclipse/project/assign-device/>
 - Set/check that active project is correct
 - Set/check that device is correct:
 - For OVI40 with F7 MCU: Project → Properties → C/C++ Build → Settings → Devices → STM32F767ZI
 - For OVI40 with H7 MCU: Project → Properties → C/C++ Build → Settings → Devices → STM32H743ZI

Using Git with GNU-MCU-Eclipse

- Download Github desktop from <https://desktop.github.com/>
- Start Github Desktop, enter your Githu username and password, clone repository “<https://github.com/df8oe/UHSDR>”
- Optional: create local branch of cloned repo for tests
- In Eclipse, create new workspace pointing to local clone of cloned Github UHSDR repository
- Check Eclipse settings for
 - active build config
 - MCU device used
 - ...

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Permanent link: https://amateurfunk-sulingen.de/wiki/doku.php?id=en:uhsdr_dev:win10_toolchain&rev=1518895788

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