

AVR PROGRAMMING ENVIRONMENT SETUP

ABSTRACT

A Step By Step Guide For Downloading and Installing AVR Programming Environment Tools.

Muhammad Fawzi

AVR Interfacing Course

Eclipse AVR Environment Setup

1-Downloading Eclipse IDE:

X86 OS:

<https://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/mars/2/eclipse-cpp-mars-2-win32.zip>

X64 OS:

https://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/mars/2/eclipse-cpp-mars-2-win32-x86_64.zip

2-Downloading & Install JRE:

X86 OS:

<https://download.oracle.com/otn/java/jdk/8u271-b09/61ae65e088624f5aaa0b1d2d801acb16/jre-8u271-windows-i586.exe>

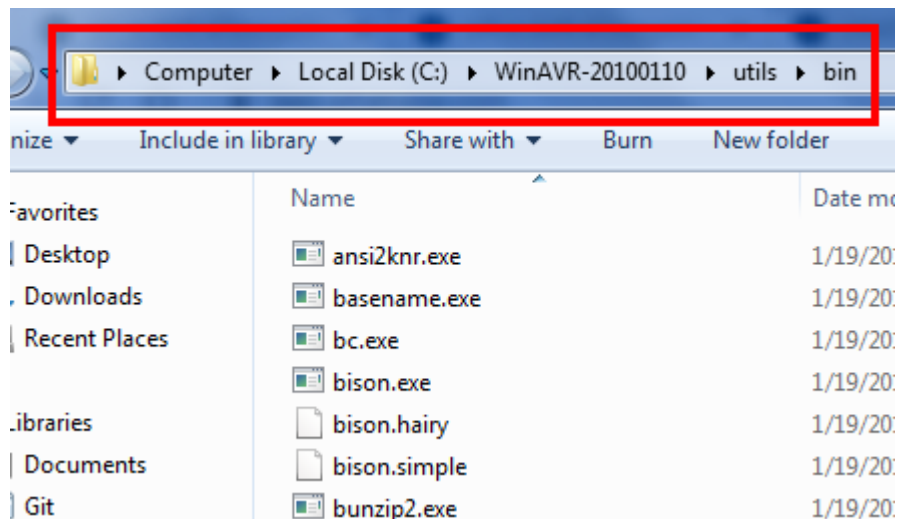
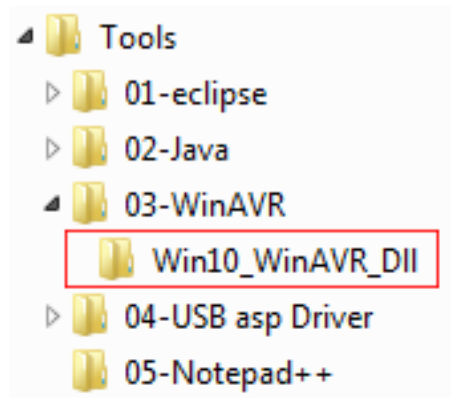
X64 OS:

<https://download.oracle.com/otn/java/jdk/8u271-b09/61ae65e088624f5aaa0b1d2d801acb16/jre-8u271-windows-x64.exe>

3-Download & Install WinAVR Compiler:

<https://sourceforge.net/projects/winavr/files/latest/download>

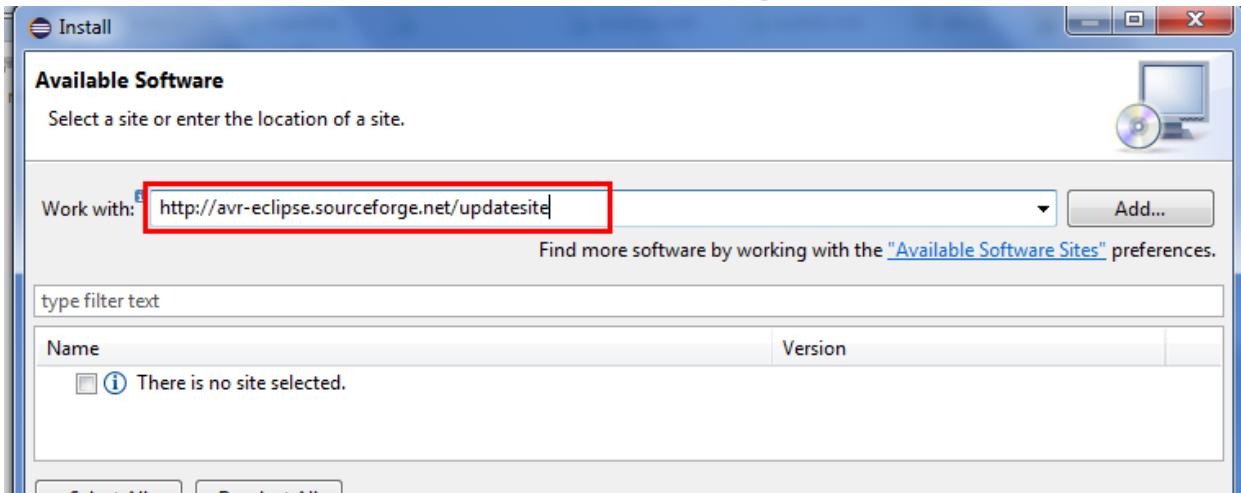
Note: For Windows 10 users, after installing Winavr compiler, copy the DLL file placed in your tools folder *Tools\03-WinAVR\Win10_WinAVR_Dll* to the following path *C:\WinAVR-20100110\utils\bin*



4-Install GCC Plugin For Eclipse:

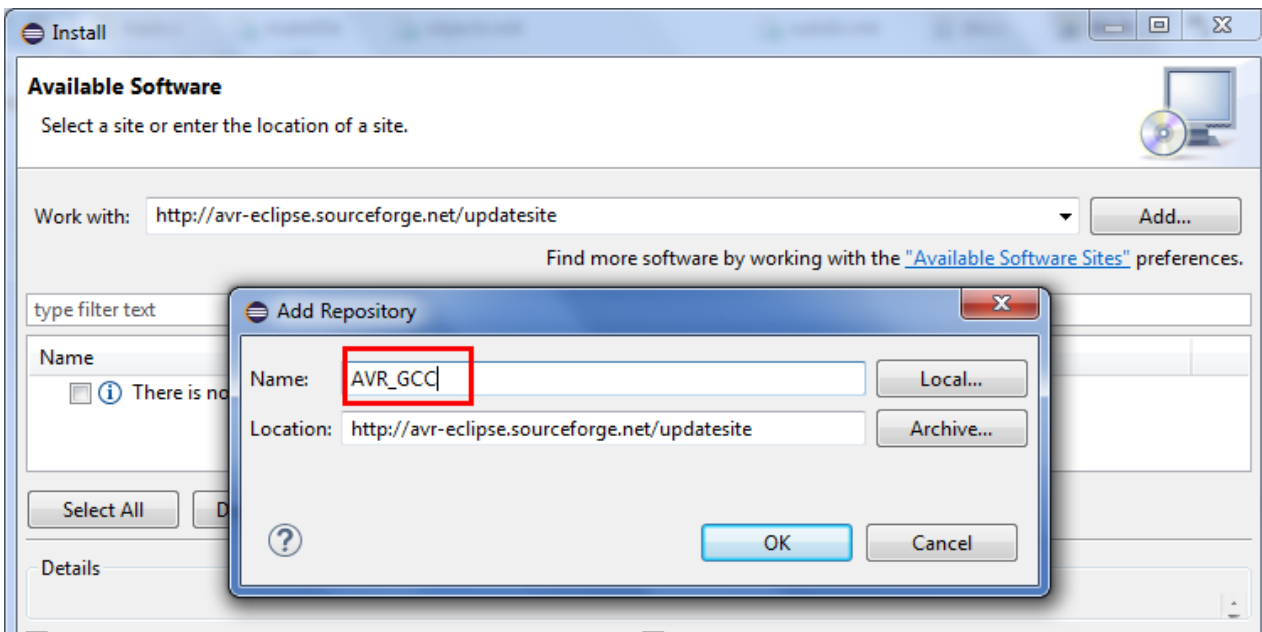
In eclipse Help -> Install New Software.

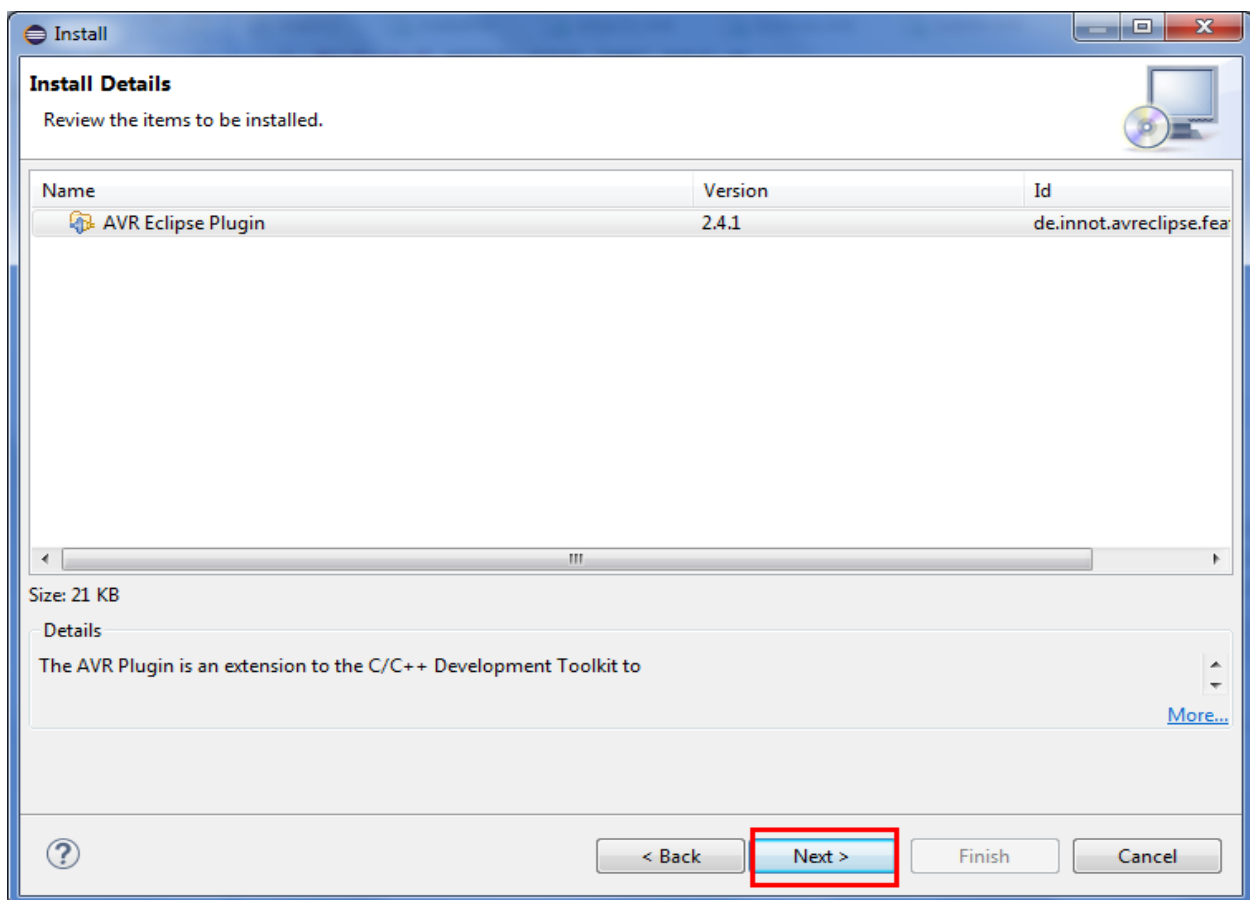
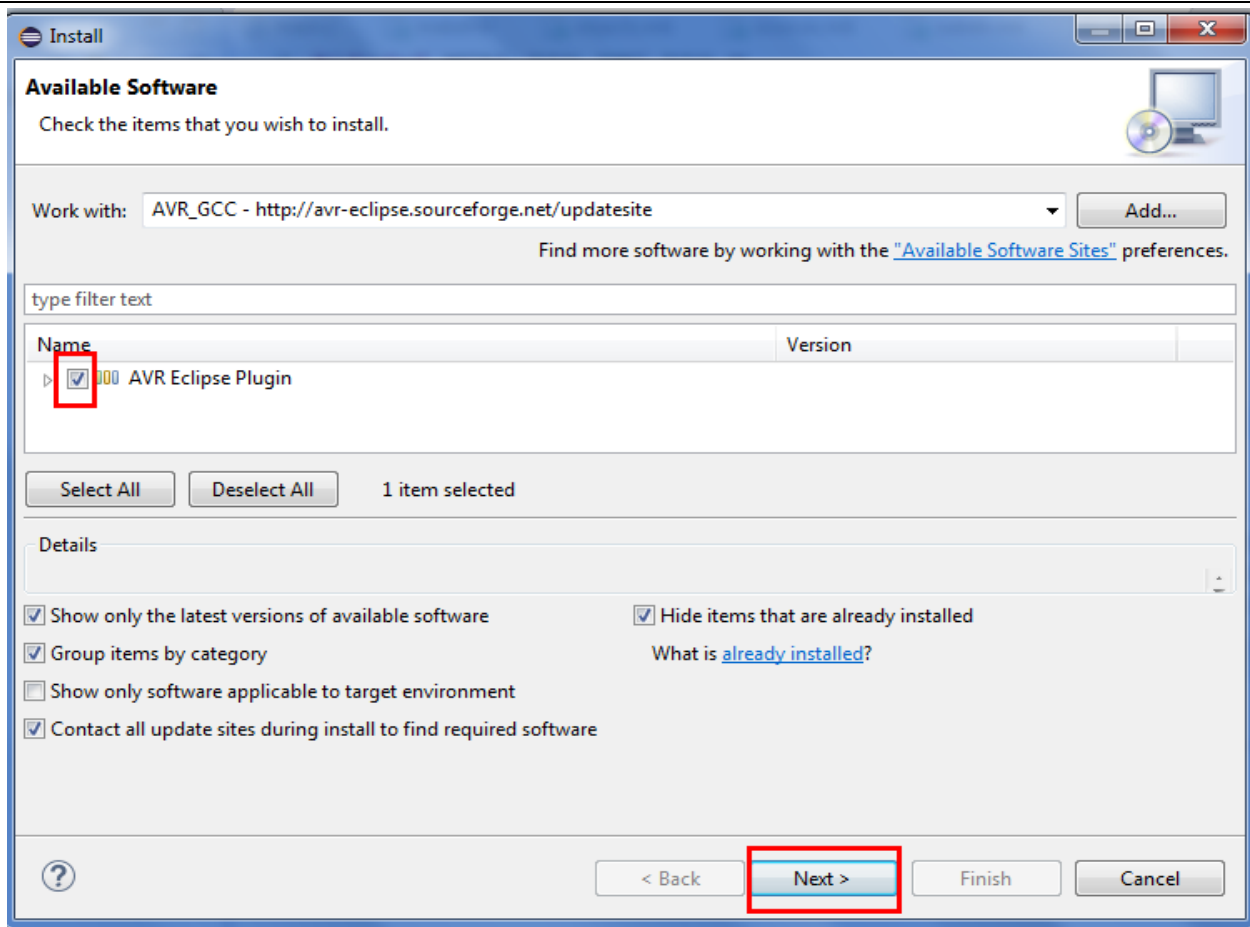
Paste URL: <http://avr-eclipse.sourceforge.net/updatesite>

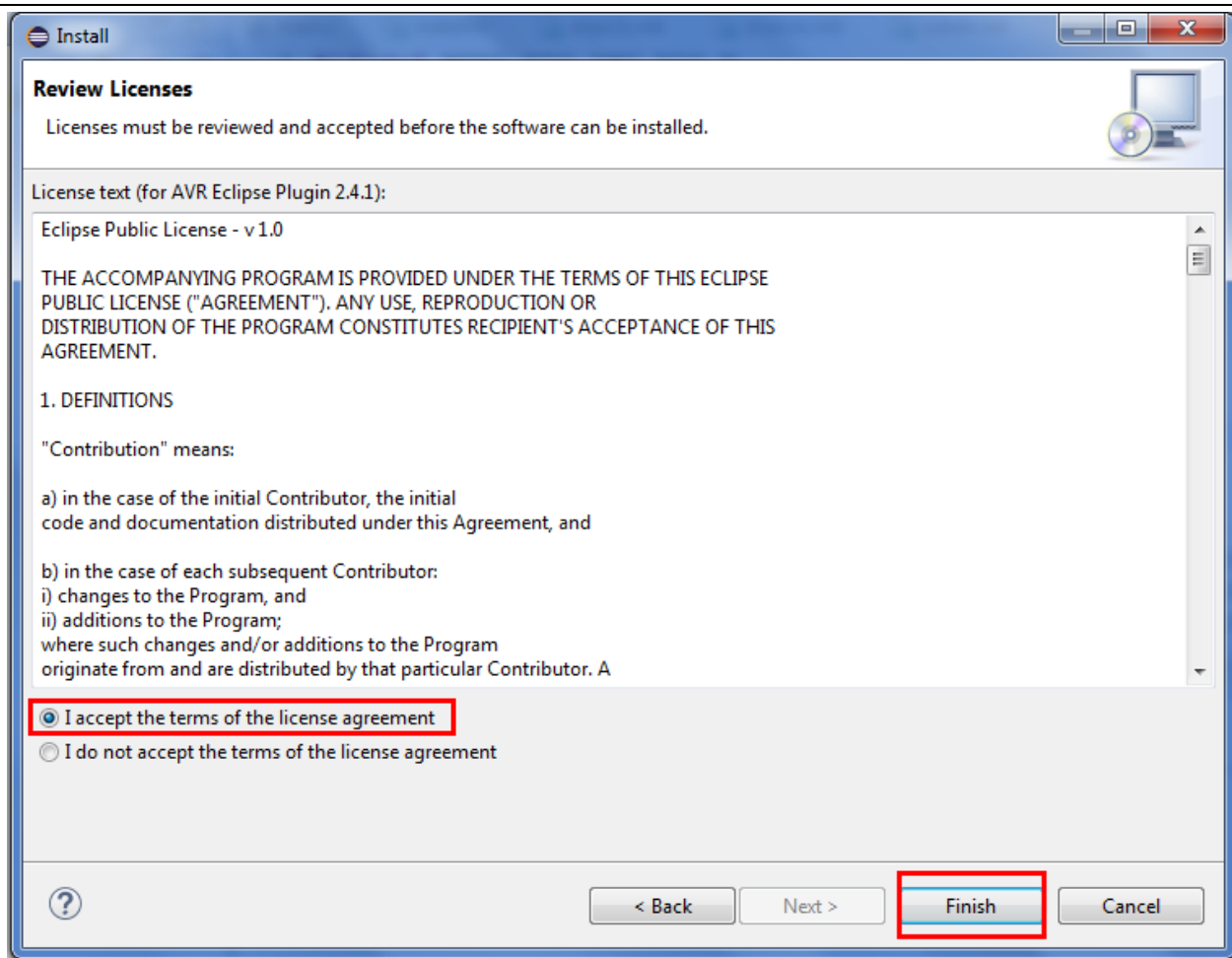


Press Add...

Choose Name "AVR_GCC"





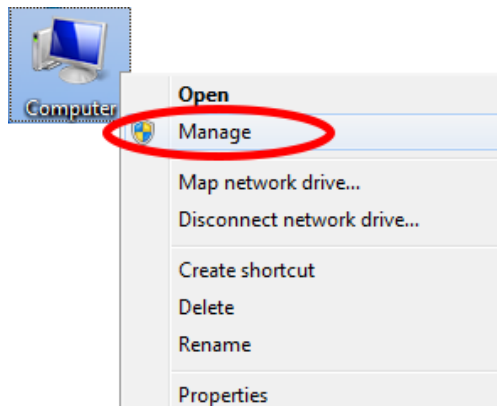


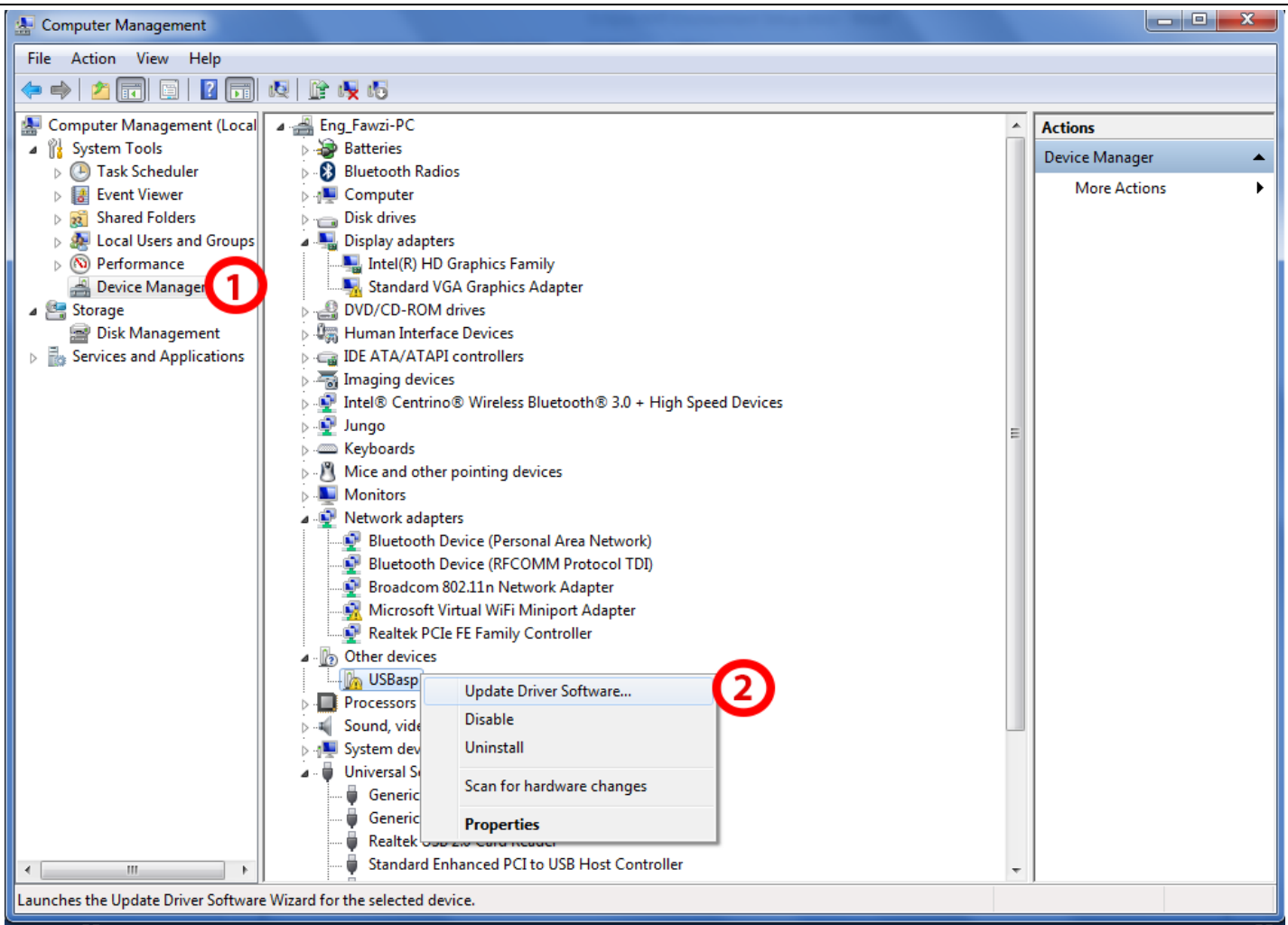
5-Installing USBasp Driver:

Note: For Windows 8 & 10 users, you shall first Disable Digital Signature.

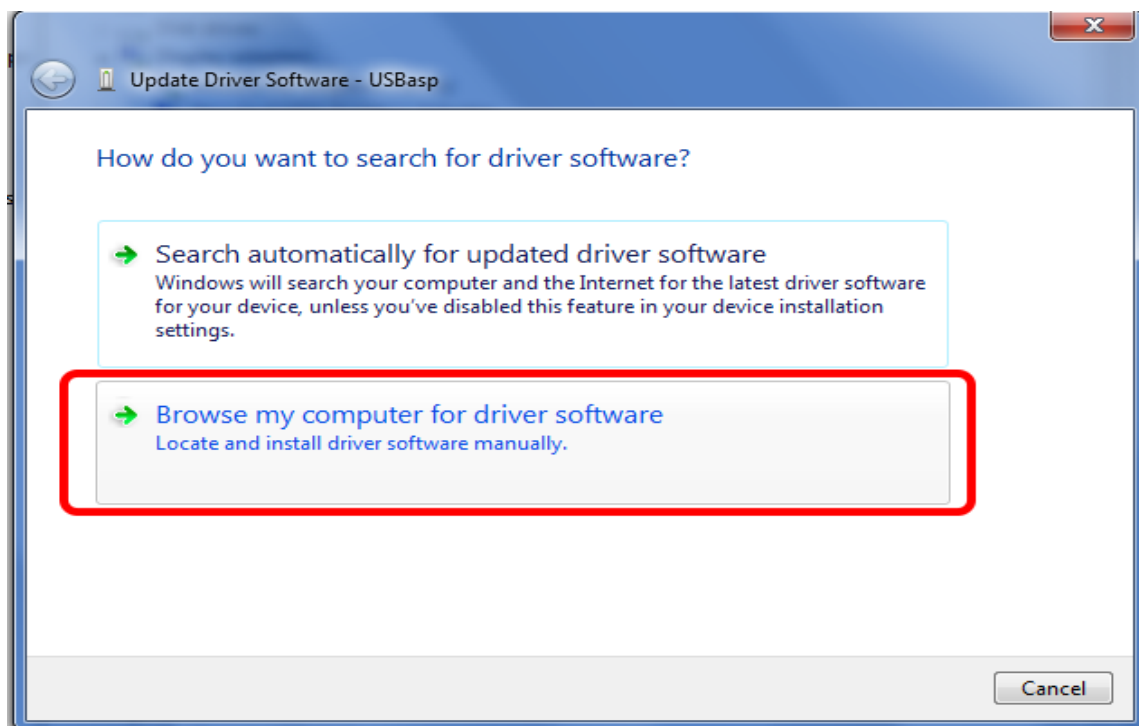
Follow This Video <https://www.youtube.com/watch?v=OHOnxpPh0sM>

- Connect your “**USBasp**” programmer to Computer.
- Open device manger:
 - Right click on My Computer -> Manage.
 - choose Device Manager from left side.





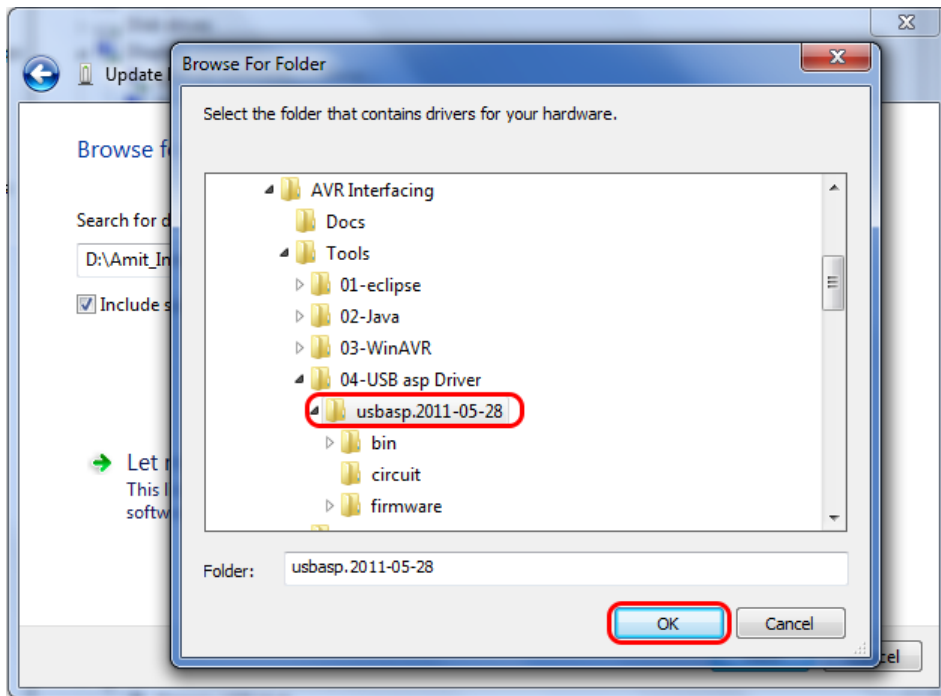
- Right click on USBasp ->Update Driver Software



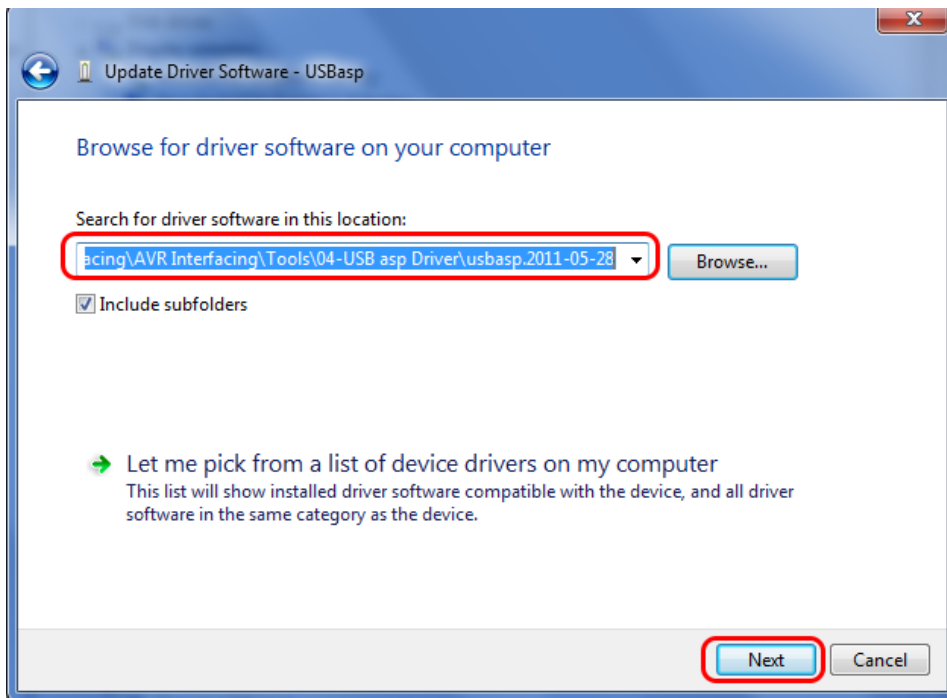
- From your tools folder select “usbasp.2011-05-28”

\\Tools\\04-USB asp Driver\\usbasp.2011-05-28

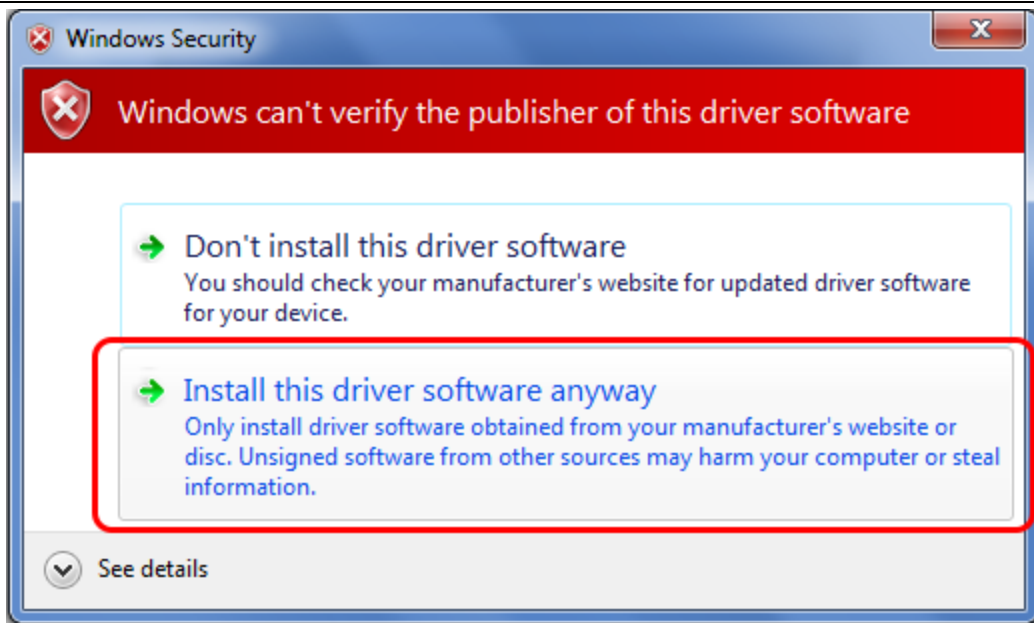
- Then OK.



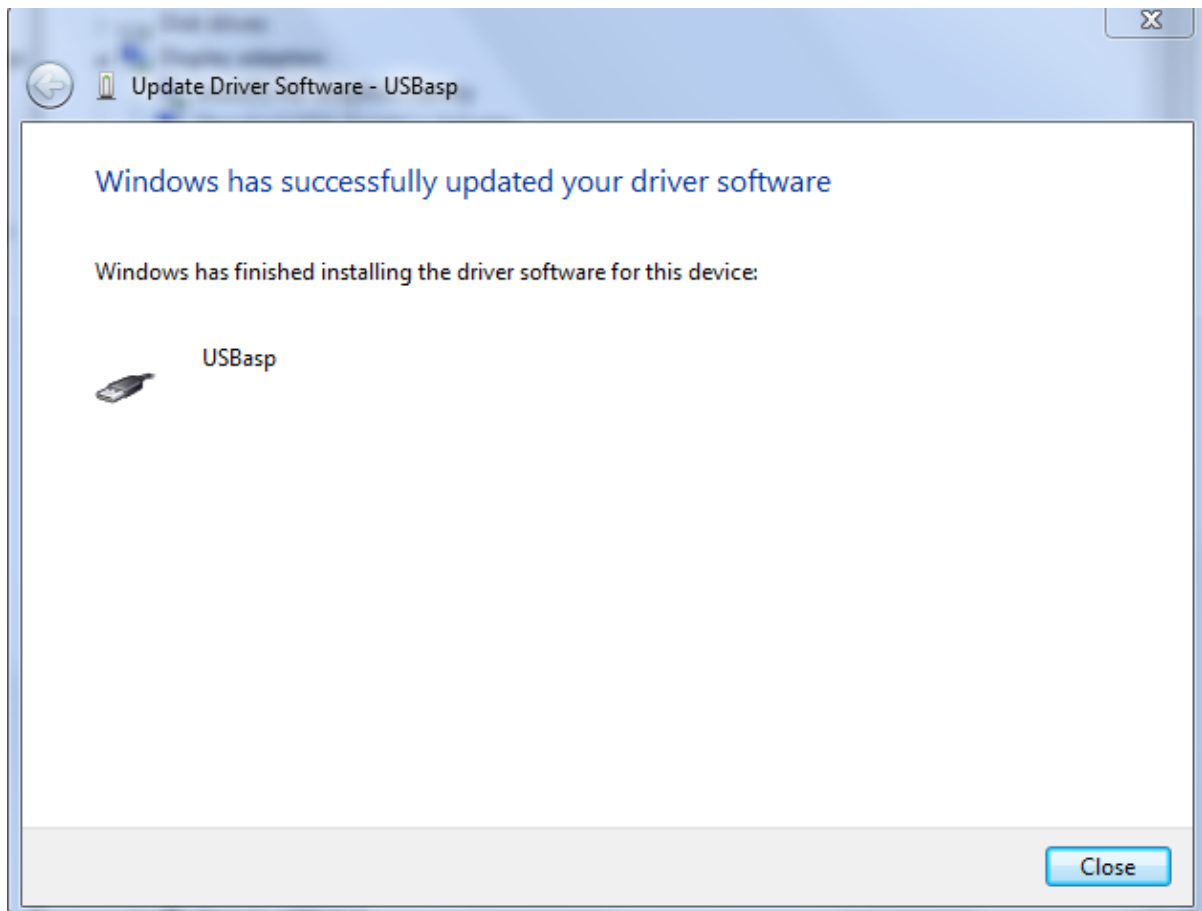
- Then Next.



- Then select install this software anyway.



- Then wait until driver install successfully.



6-Setup USBasp:

To setup Usbasp for your project follow these steps:

Right click on project_-> properties -> AVR -> AVR dude.

