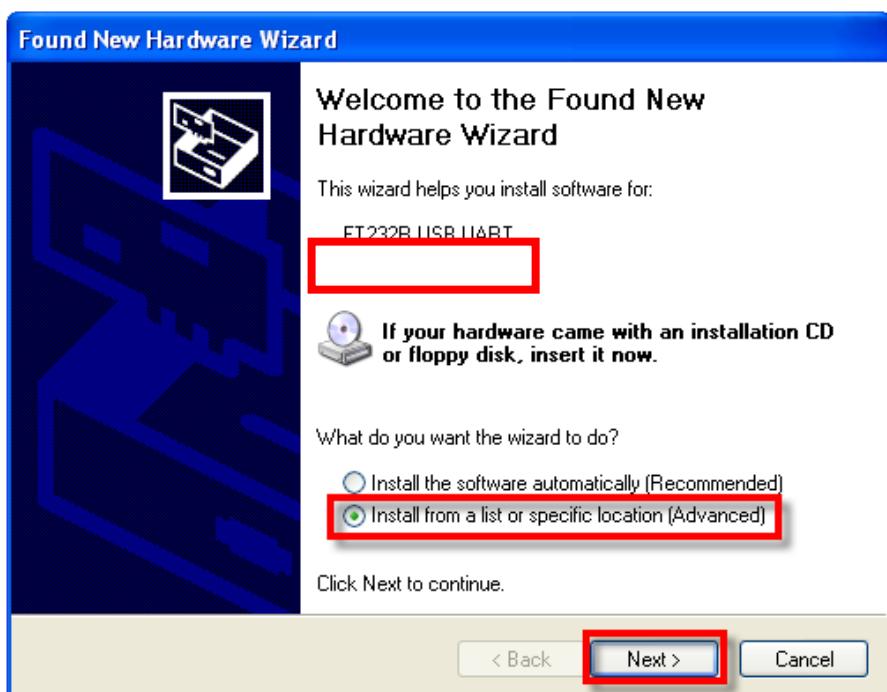


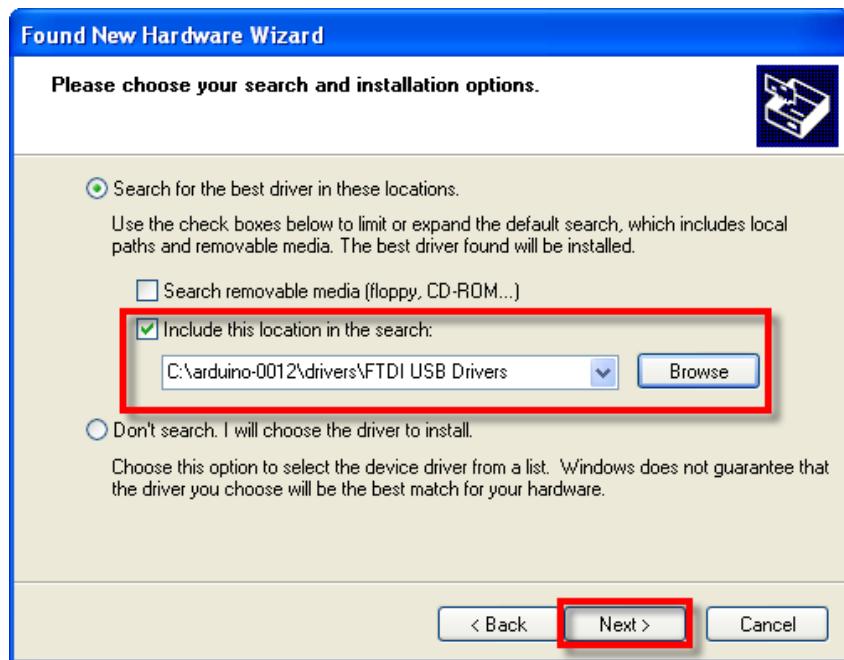
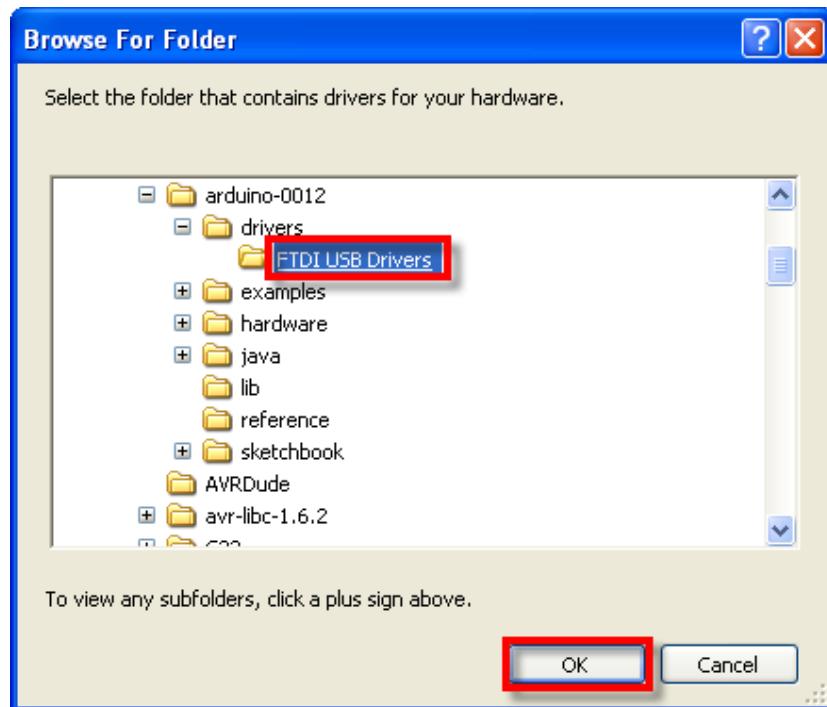
How to install Driver of USB Bridge of Board ET-MEGA2560-ADK

Board **ET-MEGA2560-ADK** uses Chip USB Bridge of FTDI to be an intermediate between the device and computer PC. This USB Bridge of FTDI is an intermediate to interface and communicate between computer PC and MCU ATmega2560 of Board ET-MEGA2560-ADK in the format of Serial Port (Visual Com Port). Program Applications on computer PC, including Program Arduino assumes that Port USB that has been interfaced with Board ET-MEGA2560-ADK only is a Serial Port (Visual Com Port). Program Applications that run on computer PC, including Program Arduino assume Port USB that is interfaced with ET-MEGA2560-ADK is only a Serial Port Communication (Com Port). If user's computer has been installed Driver for Bridge of FTDI; when user has interface Cable USB of Board ET-MEGA2560-ADK with USB HUB of computer PC, Windows will install Driver automatically. On the other hand, if computer PC has not been installed Driver of FTDI yet, it has to install Driver into the board as processes below;

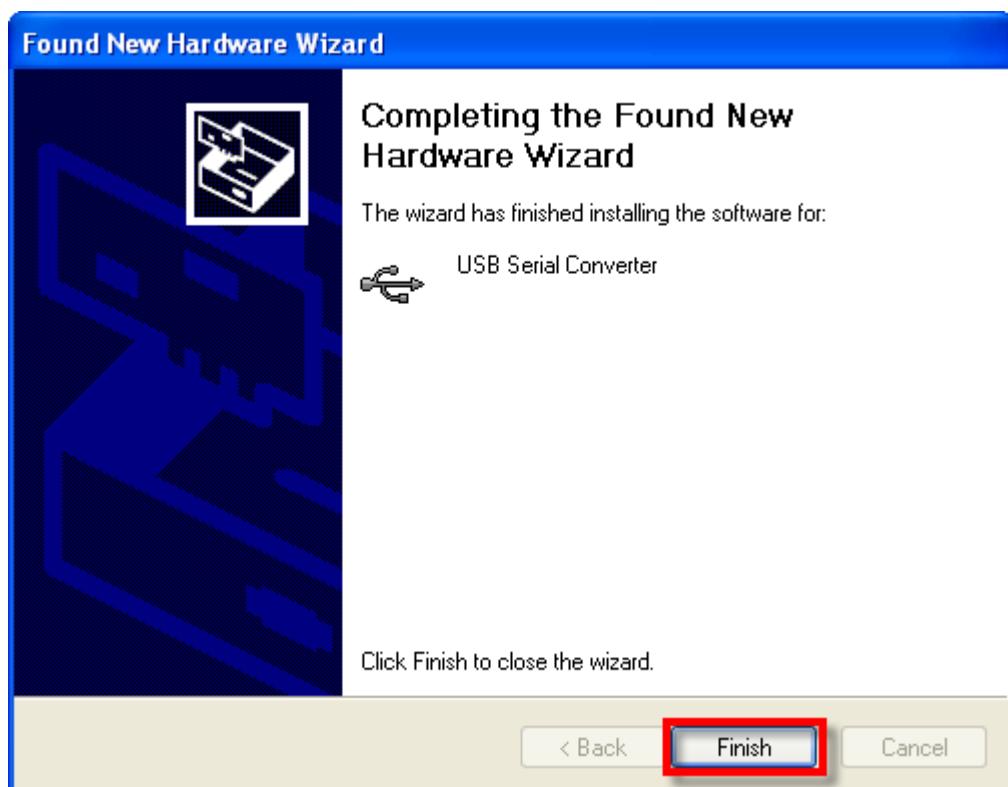
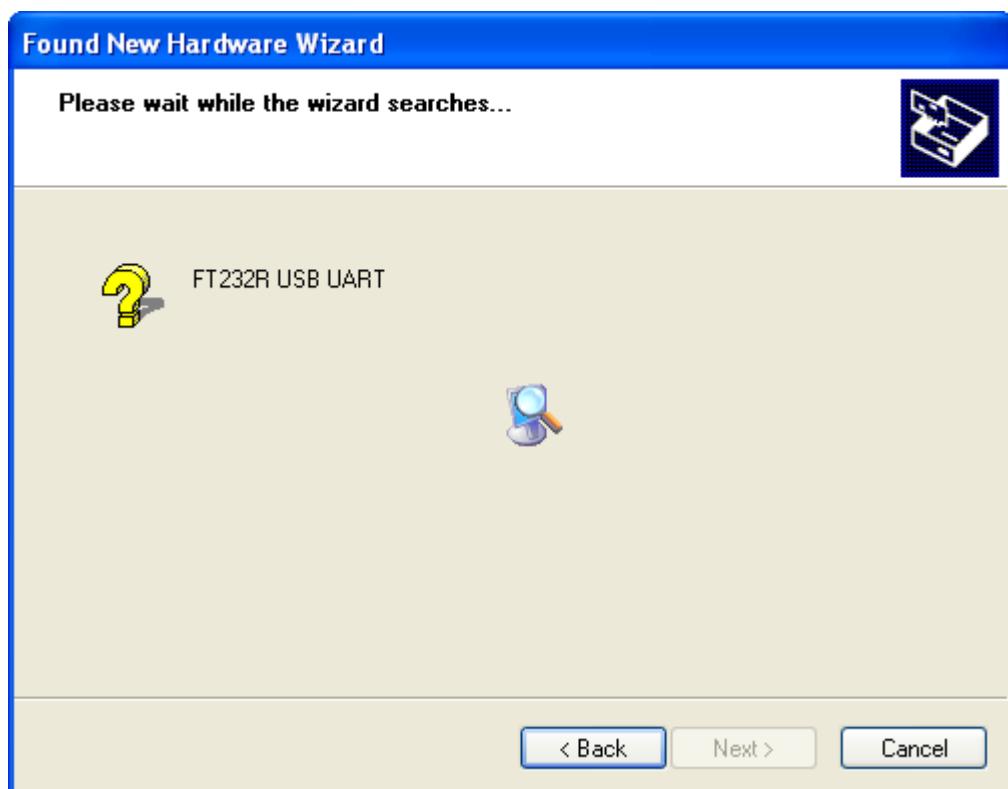
1. Prepare CD-ROM that contains Driver of FTDI for installation. If user has already installed Program of Android into computer, there is Driver of FTDI inside the folder of Program Arduino; it is in the location "**C:\arduino-0012\drivers\FTDI USB Drivers**".
2. Insert Cable USB of Board ET-MEGA2560-ADK into Port USB HUB of computer PC; Windows found the new device as "**FT232R USB UART**" and it notifies user to know and install Driver into the device as shown in the picture below;



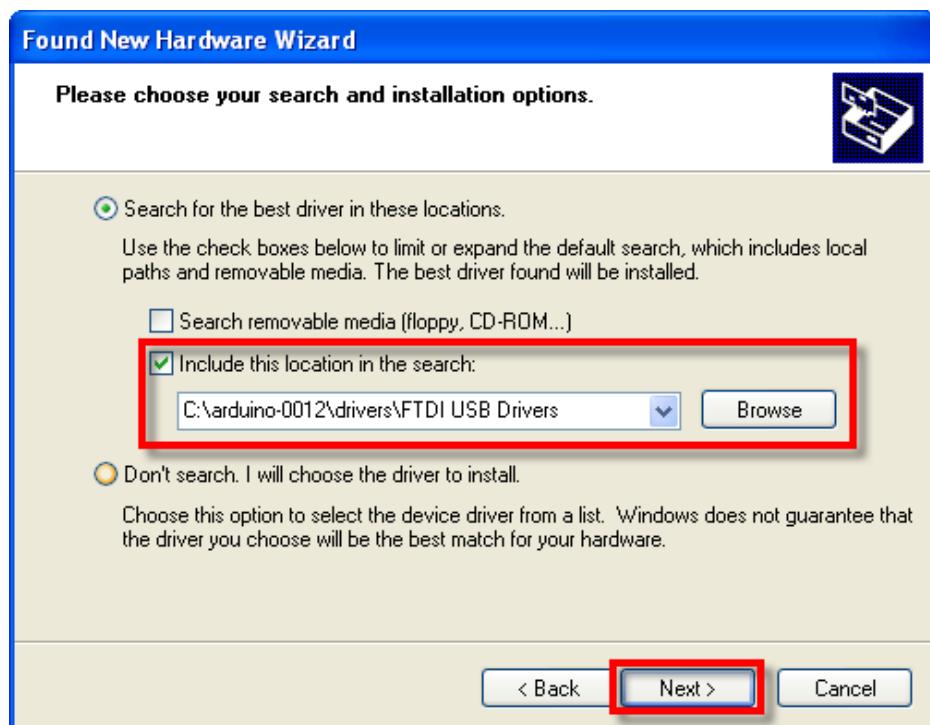
3. Tick off ***Install from list or specific location(Advanced)*** and click **Next**. Windows notifies user to know and specify the location of folder to include File Driver of FTDI. Click **Browse**; choose Drive and Folder that user requires installing the File Driver. If user has already installed Program of Arduino, only choose "**C:\arduino-0012\drivers\FTDI USB Drivers**" and click **Next** as shown in the picture below;



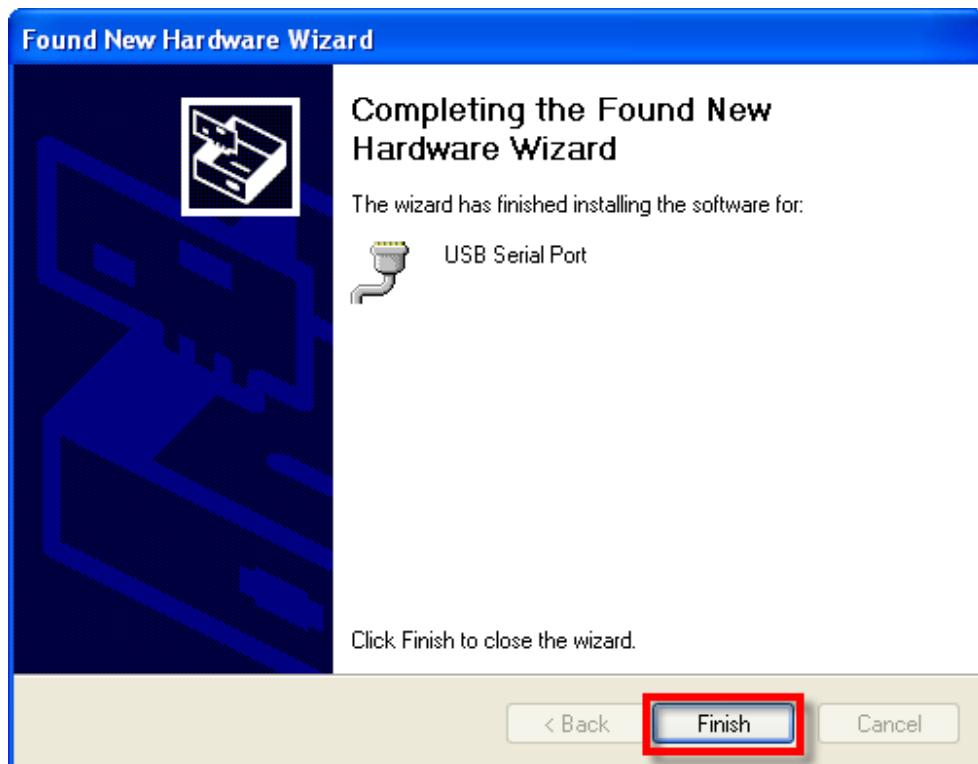
4. Program Windows search and install Driver into the device; user has to wait for a while until the operation is complete. Finally, click **Finish** as shown in the picture below;



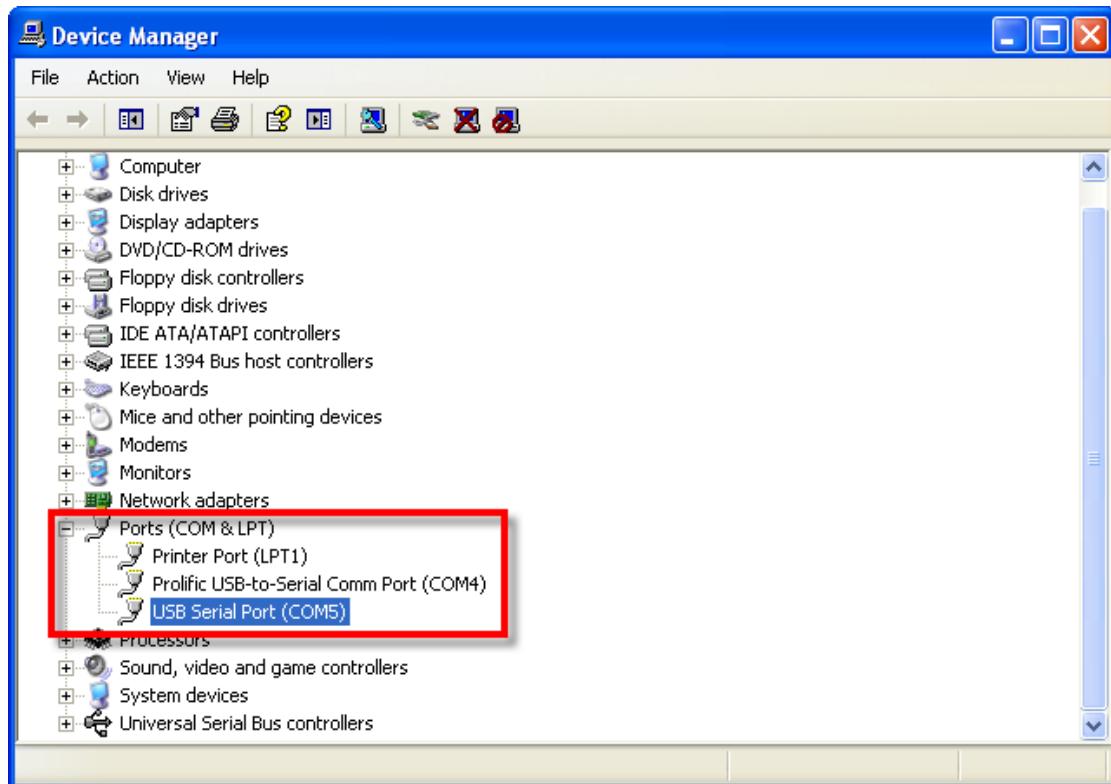
5. After it has installed Driver of Hardware completely, Windows found the new connecting device that is "**USB Serial Port**". It notifies user to install the Driver into the new device that is specified as "**USB Serial Port**". In this case, user has to specify location of folder for storing Driver as same as the step 3 above as shown in the picture below;



6. In this step, Program Windows is searching and installing the Driver into the device; user has to wait for a while until the operation is complete. Finally, click **Finish** as shown in the picture below;



7. After user has installed the Driver successfully, user can use the device instantly. If it is used in the first time, it has to check and adjust values for the device first; click Menu "**My Computer** → **Control Panel** → **System** → **Hardware** → **Device Manager**". Next, check **Ports(COM&LPT)** and look at name of "**USB Serial Port**"; user has to remember the Com Port Number of the device because it is used as reference for calling as shown in the picture below;



8. Click plus sign (+) in front of **Ports(COM&LPT)**, and look for the device called "**USB Serial Port**" that user has already installed the Driver. If user does not ensure that it is the device of Board **ET-MEGA2560-ADK** or not, user has to remove the Cable USB from the device and lists of device disappear; next, insert the Cable USB into the device again, lists of the device appear. If everything is correct, click Tab of the list device. When it displays window of **USB Serial Port Properties**, choose **Port Settings** and **Advance**. Finally, user can set values for the device completely as follows;

- a. Set **USB Transfer Size** → **Receive (Bytes)** as 256.
- b. Set **USB Transfer Size** → **Transmit (Bytes)** as 128.
- c. Set **BM Option** → **Latency Timer (mSec)** as 1.

