

*Montage und Programmierung
eines Roboters für
ROBOCUP JUNIOR RESCUE
mit Arduino Nano
Teil 1.2: Talk to Arduino Board*

Download and install Microchip Studio

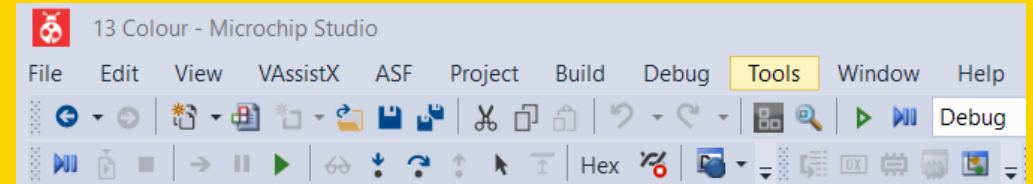
<https://www.microchip.com/en-us/tools-resources/develop/microchip-studio#>

The screenshot shows the Microchip website's 'Tools and Resources' section. A red arrow points from the top header to the 'Downloads' link in the navigation menu. Below the navigation, the page title is 'Microchip Studio for AVR® and SAM Devices'. The main content area contains a paragraph describing the IDE and a section for downloading the software.

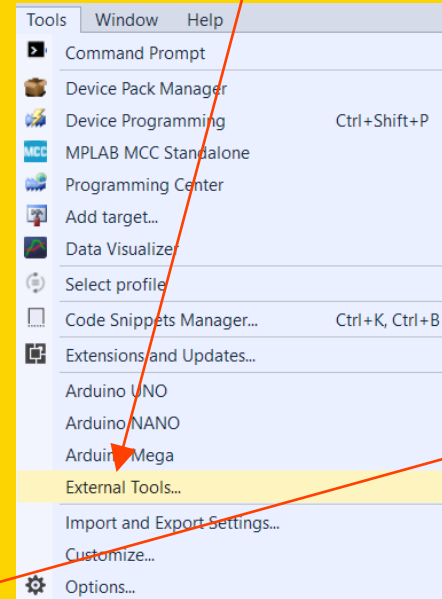
Download from the tutorial site the two „avrdude“ files and save them to **a place you want**.

- [Arduino IDE \(Version 1.8.19\)](#)
- Or just [avrdude.exe](#) - EXE 549,50 KB
- And [avrdude.conf](#) - CONF 495,11 KB
- [Microchip Studio](#)

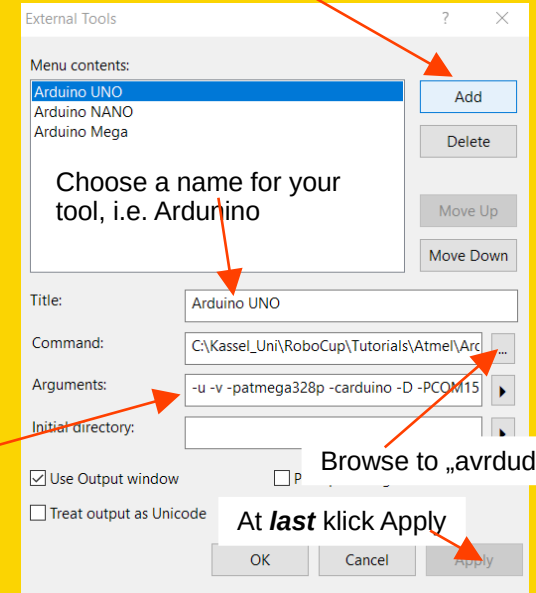
Choose „Tools“ in the Toolbar



Klick „External Tools“



Klick „Add“

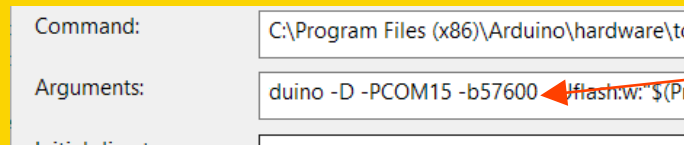


Browse to „avrdude.exe“

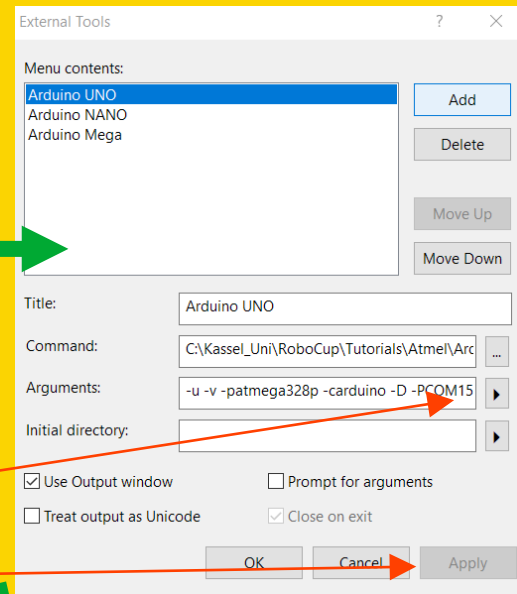
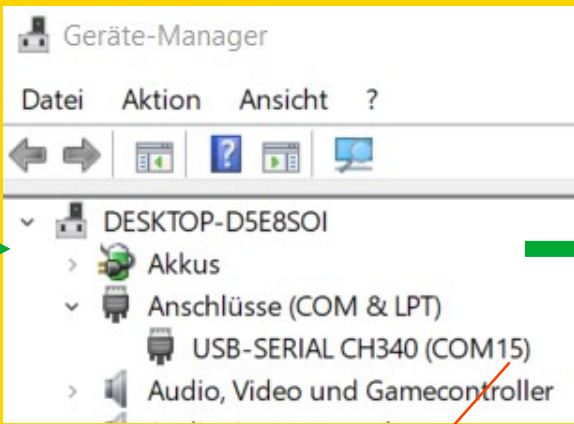
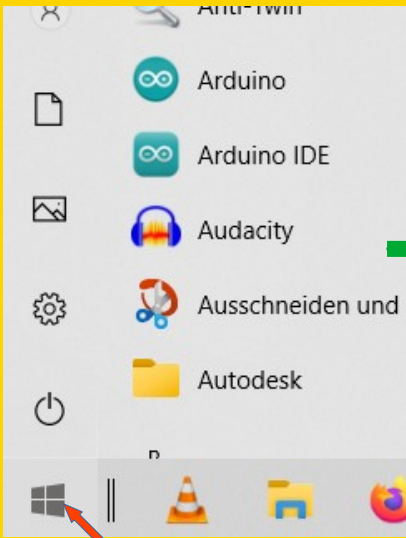
At **last** click Apply

Fill in the line:

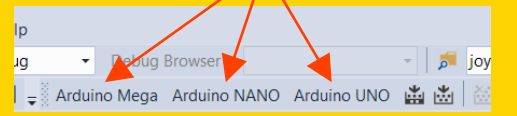
```
-u -v -patmega328p -carduino -D -PCOM15 -b115200 -Uflash:w:"$(ProjectDir)Debug$\  
(TargetName).hex" :i -C"C:\Your_File_Address\avrdude.conf"
```



Some of the Arduino Boards only works with a BAUD rate of 57600. Probably you have to change it.



At last there will be a „button“ for loading down your program to the Arduino board. I have build myself three different buttons.



Klick to the Windows symbol
Type to your keyboard: „device manager“
(German: Geräte Manager)
choose „Universal Serial Bus Controller“
(German: Anschlüsse)
My Arduino is connected to COM15

Change, if necessary, the number of the port

At last klick Apply

Klick **right** to the toolbar

