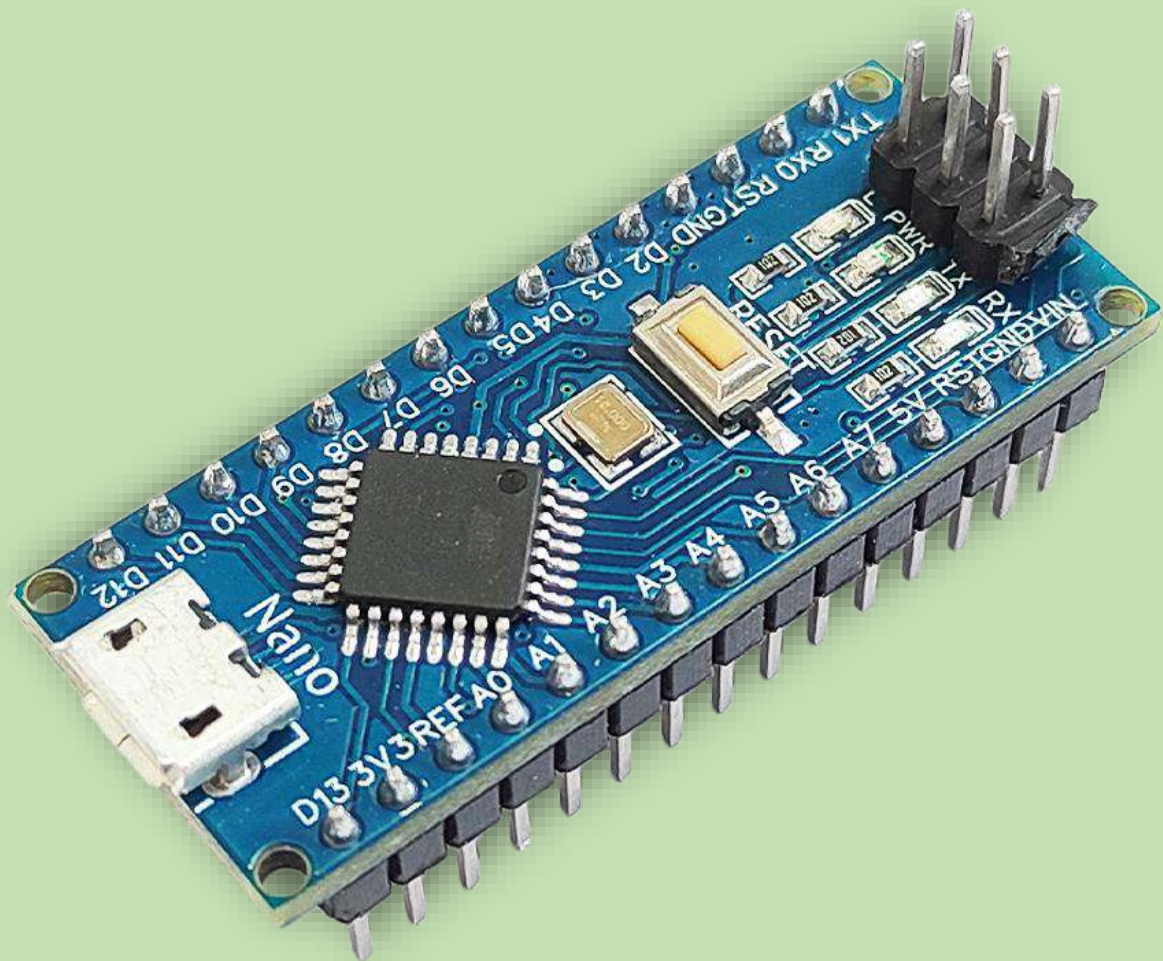


# USER GUIDE

## ADIY Nano





## Install the CH340C Drivers

You can download CH340C USB to UART Drivers from the following link: [How to Install CH340 Drivers - learn.sparkfun.com](https://learn.sparkfun.com/how-to-install-ch340-drivers)

Select download link according to the operating system.

### Drivers (If You Need Them)

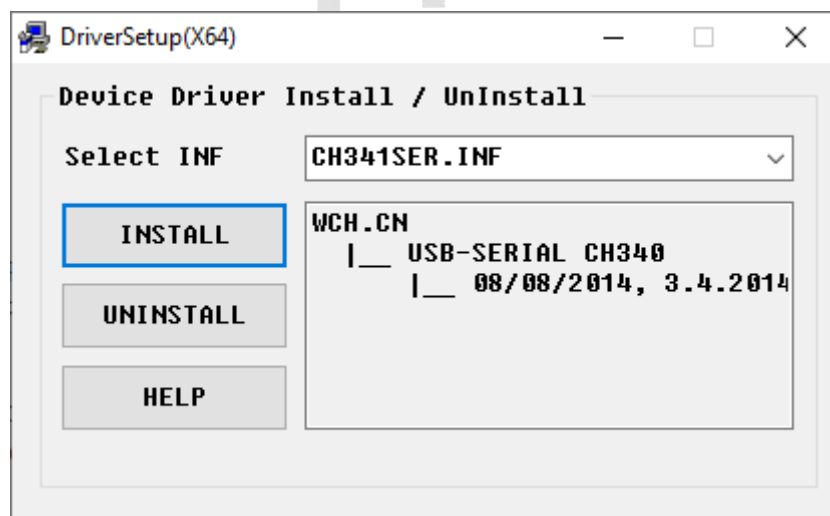
The CH340 has been tested on:

- Windows 7/10
- Mac OSX
  - v10.10.5 (Yosemite)
  - v10.11.6 (El Capitan)
  - v10.13.0 (High Sierra)
  - v10.14.5 (Mojave)
- Linux
  - Raspbian Stretch (11-13-2018 release) for the Raspberry Pi
  - Raspbian Buster (2019-07-10 release) for the Raspberry Pi
  - Ubuntu v18.04.2, 64-bit

These operating systems have the CDC drivers pre-installed, which means you shouldn't need to install any extra software. However, there are a wide range of operating systems out there, so if you run into driver problems, you can get the archived drivers linked below:

- [Windows \(EXE\)](#) -- Driver executable
- [Windows \(ZIP\)](#) : Driver v3.4 (2016-09-27)
- [Mac \(ZIP\)](#) : Driver v1.5 (2018-07-04)
- [Linux \(ZIP\)](#) : Driver v1.5 (2018-03-18)

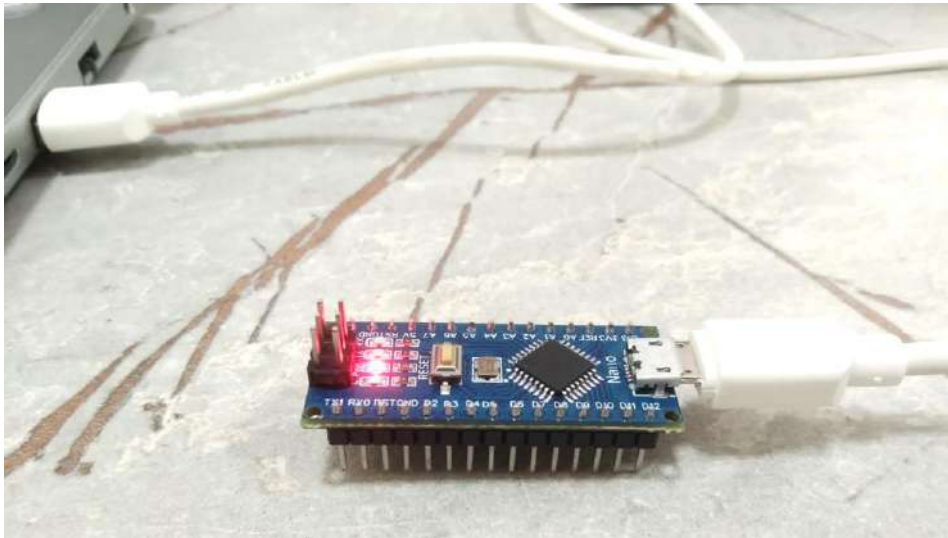
After downloading drivers, open the file on your desktop. Click the "UNINSTALL" button first. Then click on the "INSTALL" button.



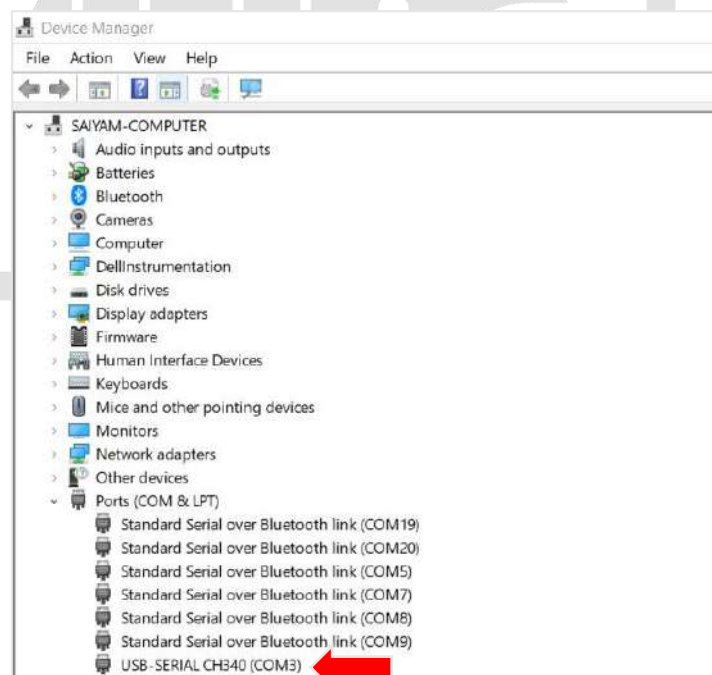


After installation is completed, click on “OK”.

Connect ADIY Nano board to PC/Laptop through Micro-USB cable.



Open device manager in your PC/laptop and check ports section. Check and verify if board is detected.



When you see the device name (USB-SERIAL CH340) appeared in port section, drivers are installed successfully.



## Install the Arduino Desktop IDE

You can download latest version of Arduino IDE from the following link: [Software | Arduino](#)

Select download link according to the operating system.

### Downloads



#### Arduino IDE 1.8.19

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. This software can be used with any Arduino board.

Refer to the [Getting Started](#) page for Installation instructions.

**SOURCE CODE**

Active development of the Arduino software is [hosted by GitHub](#). See the instructions for [building the code](#). Latest release source code archives are available [here](#). The archives are PGP-signed so they can be verified using [this](#) gpg key.

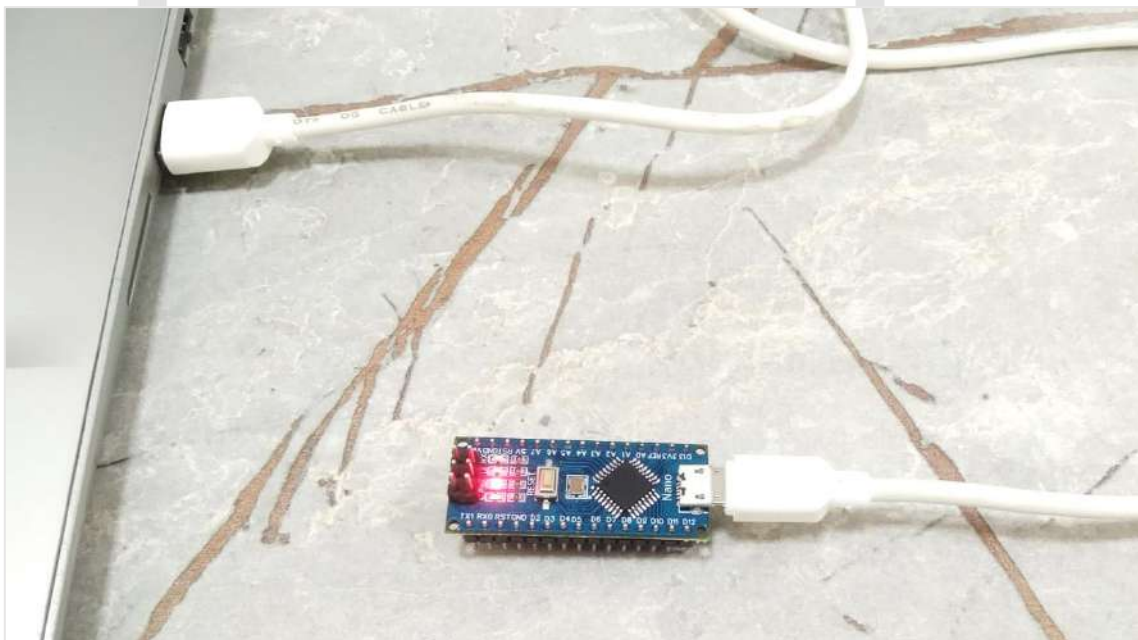
#### DOWNLOAD OPTIONS

- Windows** Win 7 and newer
- Windows** ZIP file
- Windows app** Win 8.1 or 10 [Get](#) 
- Linux** 32 bits
- Linux** 64 bits
- Linux** ARM 32 bits
- Linux** ARM 64 bits
- Mac OS X** 10.10 or newer

[Release Notes](#)

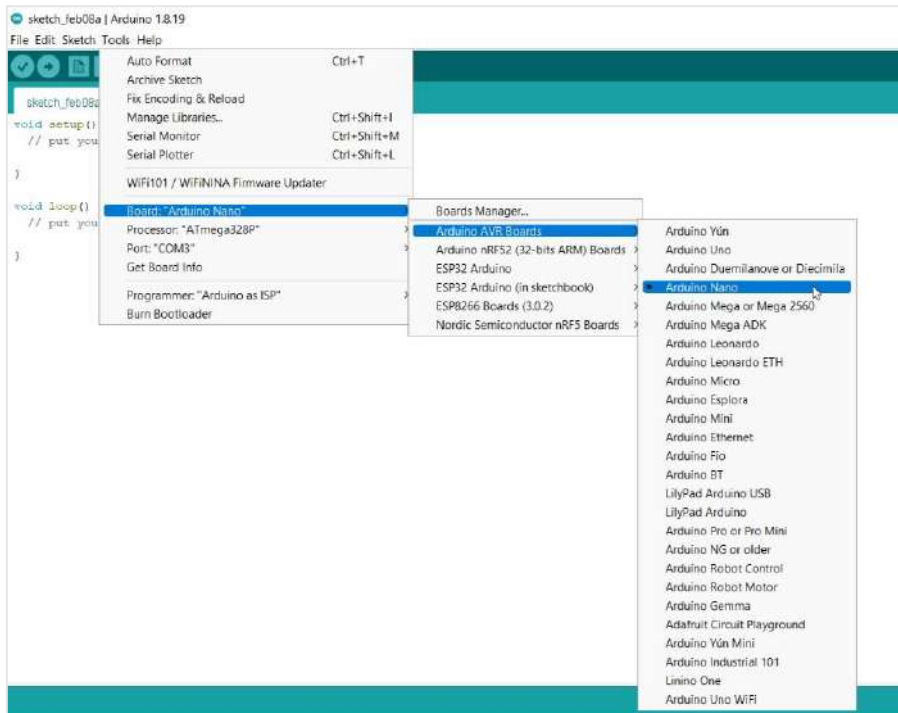
[Checksums \(sha512\)](#)

After installing Arduino IDE, connect ADIY Nano board to the PC/Laptop through Micro-USB cable. Red LED will turn ON when board is connected.

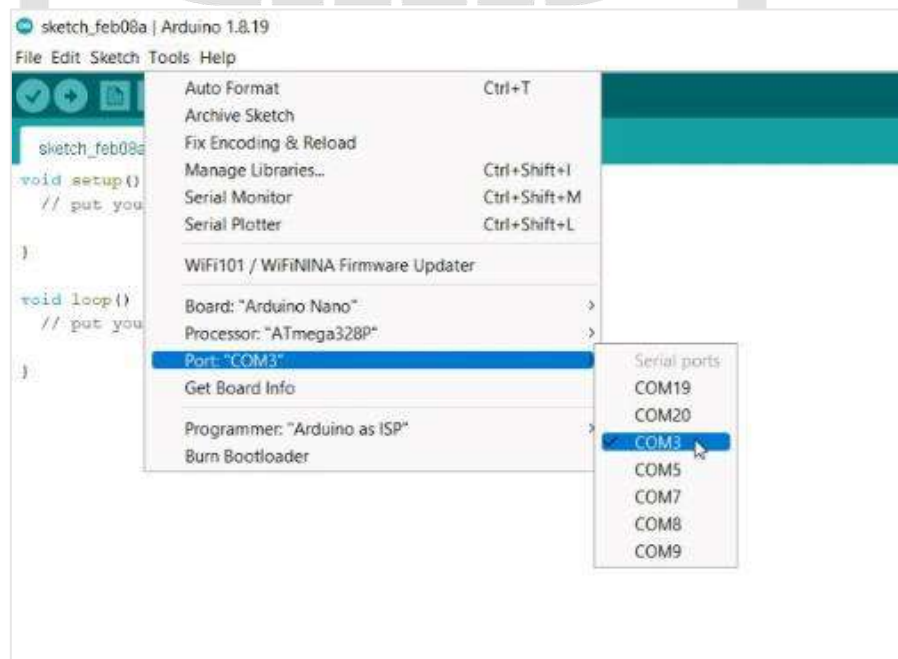




Open Arduino IDE software. Go to Tools menu from the Menu bar. Select "Arduino Nano" from Board window.

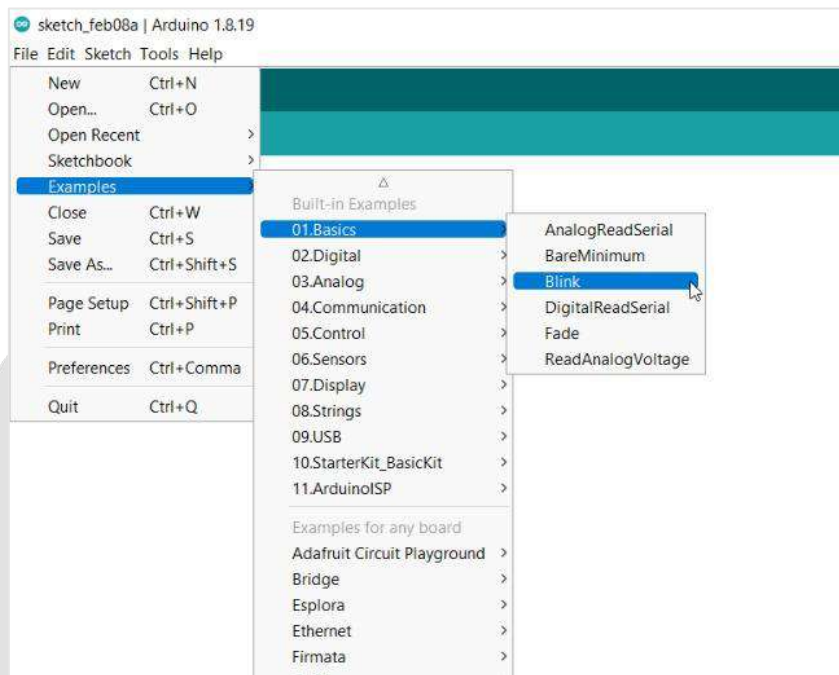


After selecting a board, go to Tools for Port selection. Select the assigned COM port. You can go to device manager to check and verify the assigned port.



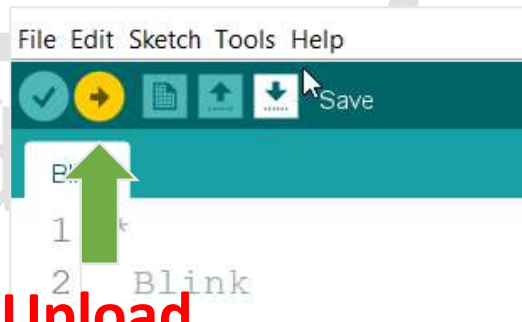


For testing your board functioning, run an existing example code. You can find example codes in File tab. Select basic code of LED blink.



**Verify** the code to check if there are any errors. After verifying the code, **upload** (in the top-left corner of the IDE) the program into the board.

**Verify**



**Upload**



While the code uploads, you should see the LED's next to Tx and Rx blinking indicating data transfer between the board and the computer. You should be able to see that code has uploaded and compiled successfully without any error.

```
Blink | Arduino 1.8.19
File Edit Sketch Tools Help

Blink
/*
 * Blink
 *
 * Turns an LED on for one second, then off for one second, repeatedly.
 *
 * Most Arduinos have an on-board LED you can control. On the Uno, Mega and Nano
 * it is attached to digital pin 13, on MEGA2560 on pin 5. LED_BUILTIN is set to
 * the correct LED pin independent of which board is used.
 * If you want to know what pin the on-board LED is connected to on your Arduino
 * model, check the Technical Specs of your board at:
 * https://www.arduino.cc/en/Main/products
 *
 * modified 9 May 2014
 * by Scott Fitzgerald
 * modified 3 Sep 2010
 * by Arturo Guadalupi
 * modified 8 Sep 2009
 * by Doity Neeman
 *
 * This example code is in the public domain.
 *
 * https://www.arduino.cc/en/Tutorial/BuiltInExamples/Blink
 */

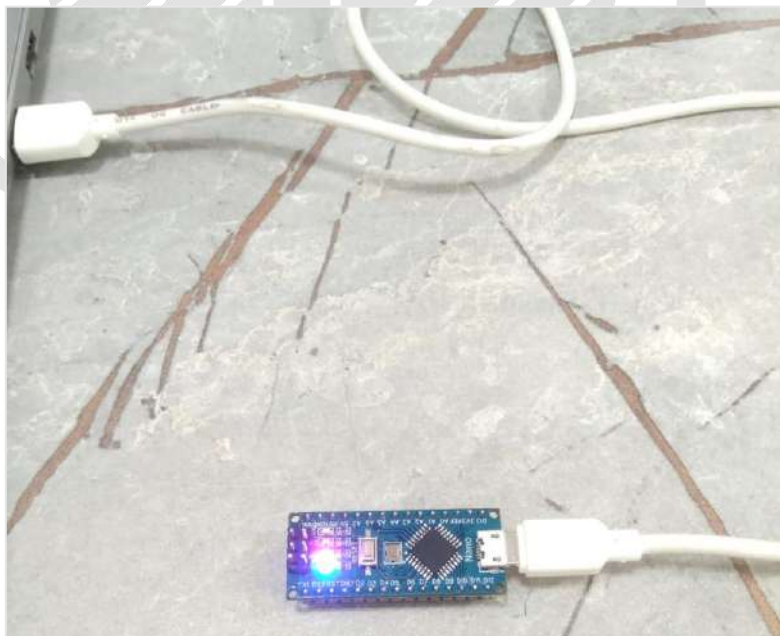
// the setup function runs once when you press reset or power the board
void setup() {
  // initialize digital pin LED_BUILTIN as an output.
  pinMode(LED_BUILTIN, OUTPUT);
}

// the loop function runs over and over again forever
void loop() {
  digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level)
  delay(1000);                       // wait for a second
  digitalWrite(LED_BUILTIN, LOW);    // turn the LED off by making the voltage low
  delay(1000);                       // wait for a second
}
```

Done Uploading



As a result, blue LED on the ADIY Nano board blinks with specified delay.



You have successfully uploaded your first sketch into the ADIY Nano!  
Happy Programming!