Serial port driver installation

The main purpose of the tutorial is to let users install the CH340 driver and find the corresponding serial port number of Arduino Uno.

```
The latest version of Windows system will automatically search for and install
the driver. The purpose of our driver installation tutorial is to provide users
whose system does not automatically update the driver
```

Device connection

Use Type-B data cable to connect the computer and Arduino Uno. The Arduino Uno may not recognize the serial port device for the first time. We need to install the CH340 driver!
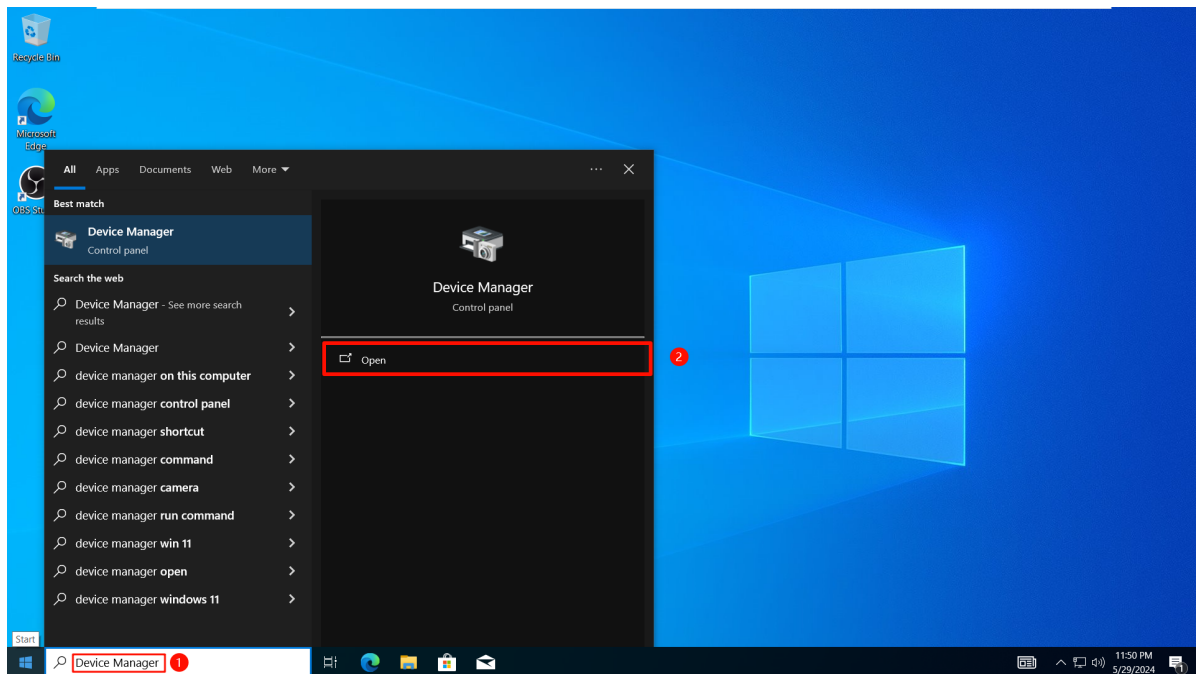
```
The latest version of Arduino IDE will automatically ask whether to install the
driver when it is used for the first time!
If it still cannot be correctly identified according to this tutorial, we can
continue to follow the tutorial, because the Arduino IDE will ask the user
whether to install the driver when it is installed for the first time. Checking
the installation driver can also solve the problem that Arduino UNO is not
correctly identified
```
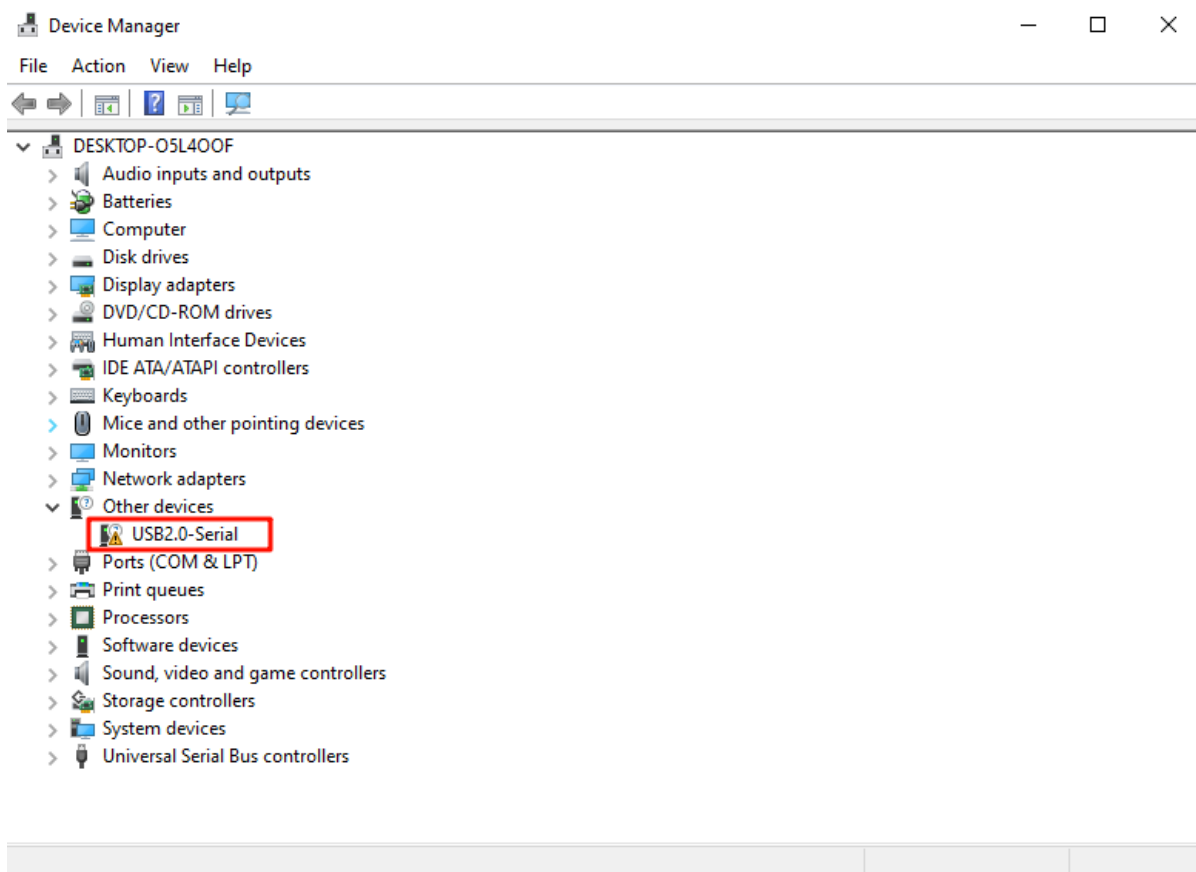
Driver verification

We can check whether the system has correctly identified Arduino UNO from the system's built-in device manager.
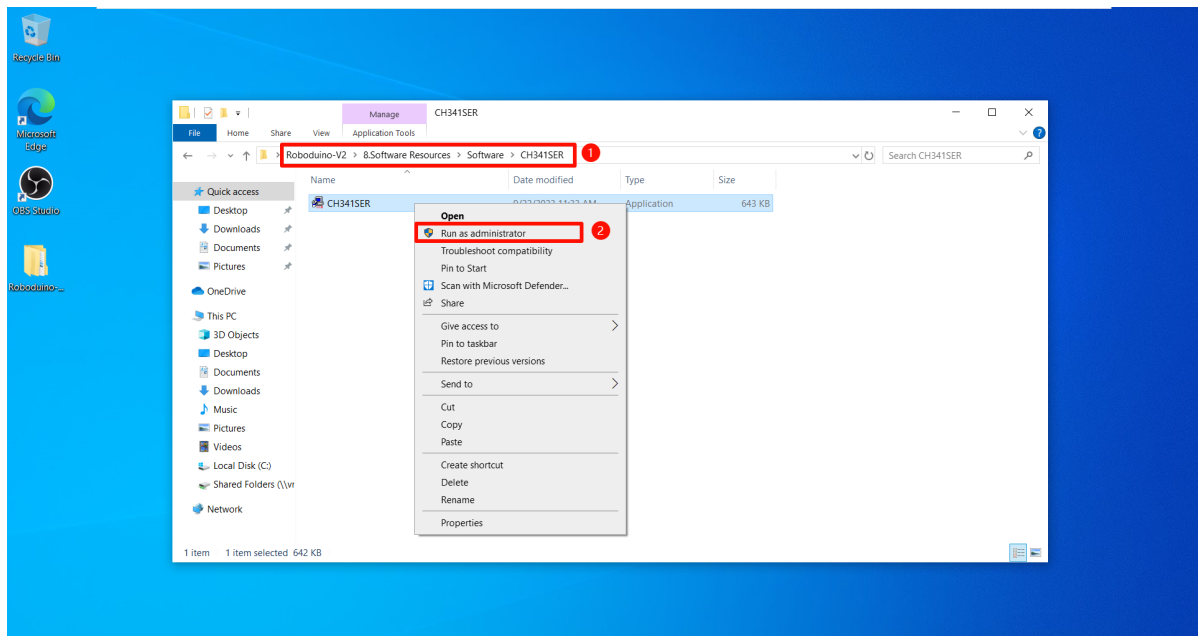
- Open the Device Manager

Driver not installed

If the CH340 driver is not installed, the system device manager will display an exclamation mark on the left icon of the new device!
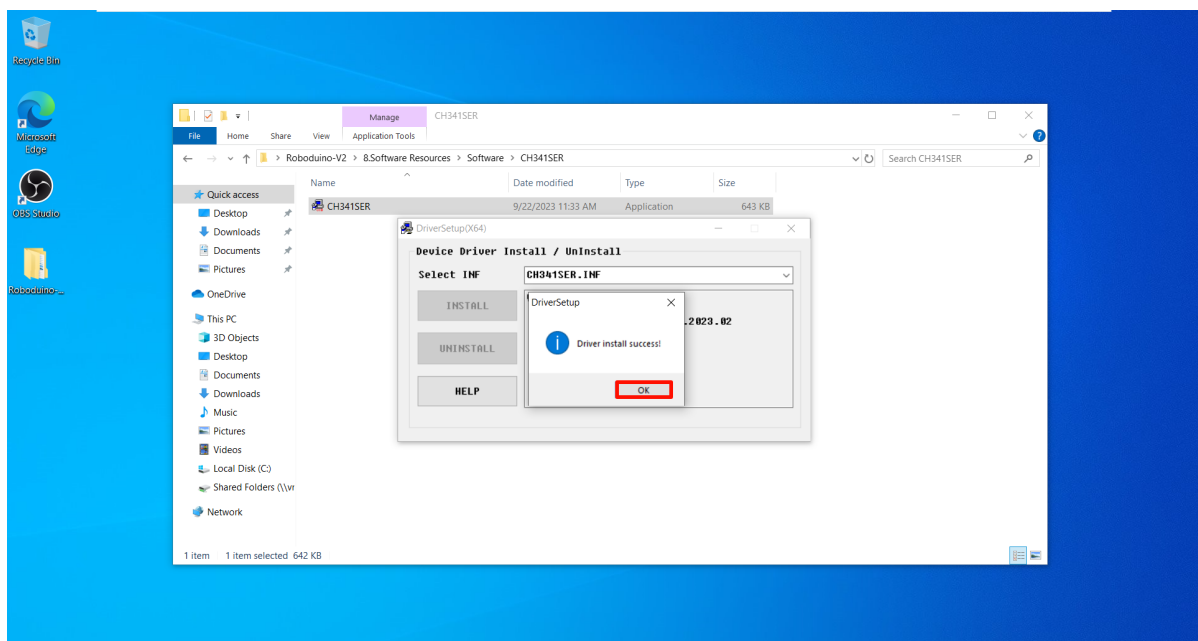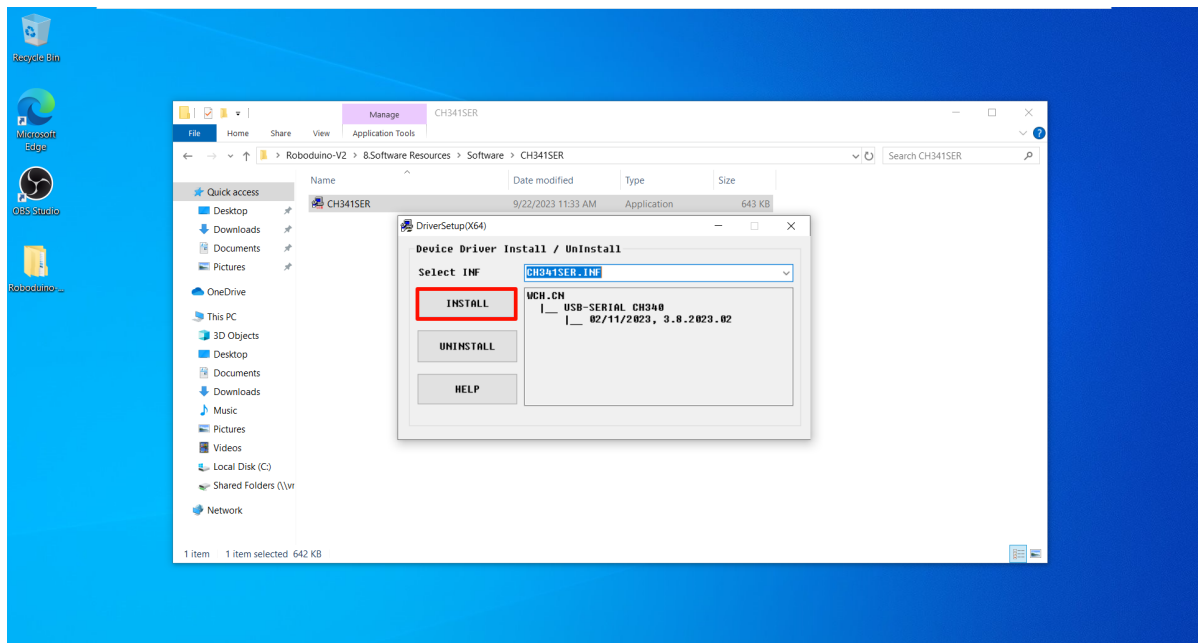

Install the driver

- **Administrator**

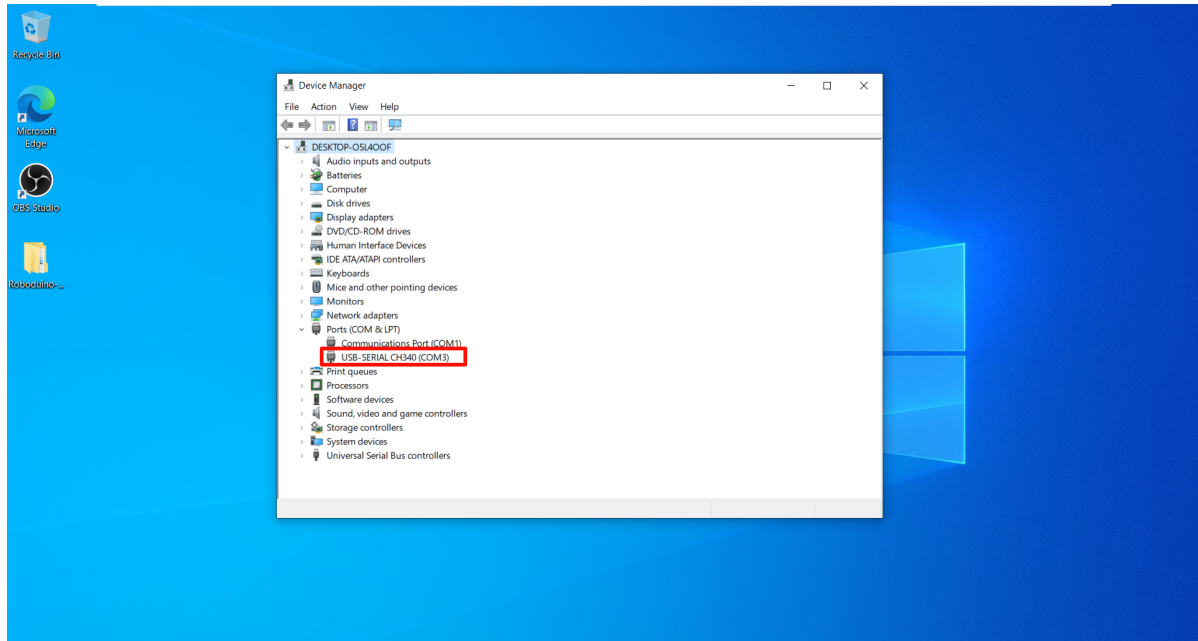Unzip and open CH341SER.EXE in [Software Resources: Software] as an administrator.

- **Installation**

- **Effect**

Reopen the device manager to see if the CH340 device can be recognized normally.

> If there is no response after installing the driver, you can restart the system
> and then connect to Arduino UNO

Hardware detection

We can stay in the device manager interface. If we find that when the computer is connected to the Arduino development board, the device manager interface will not refresh or new devices will appear, indicating that there is a hardware problem.

Hardware problems generally come from three sources: computer interface, data cable and Arduino development board. You need to troubleshoot the problem yourself!

> You can troubleshoot the source of the problem by changing the computer, data
> cable and Arduino development board.