


Arduino IDE Installation and Usage Tutorial

1. Enter Arduino's official website: <https://arduino.cc/>;

2. Click  on the home page to enter the download page;

Downloads



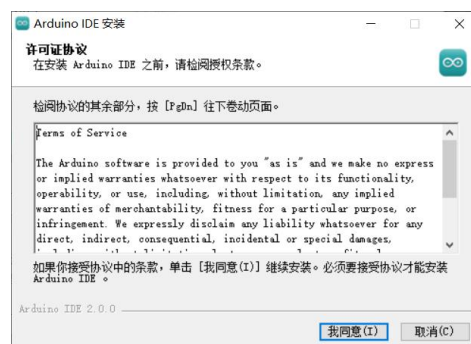
The screenshot shows the Arduino IDE 2.0.0 download page. On the left, there's a section with the Arduino logo and text describing the new major release, highlighting its speed, modern editor, autocompletion, code navigation, and live debugger. It also mentions that nightly builds are available and that the source code is open-source and hosted on GitHub. On the right, there's a teal box titled 'DOWNLOAD OPTIONS' listing download links for Windows (Win 10 and newer, 64 bits) via MSI installer or ZIP file, Linux (ApplImage 64 bits (X86-64) or ZIP file 64 bits (X86-64)), and macOS (10.14: "Mojave" or newer, 64 bits).

3. Select the corresponding system version to download the installation package;

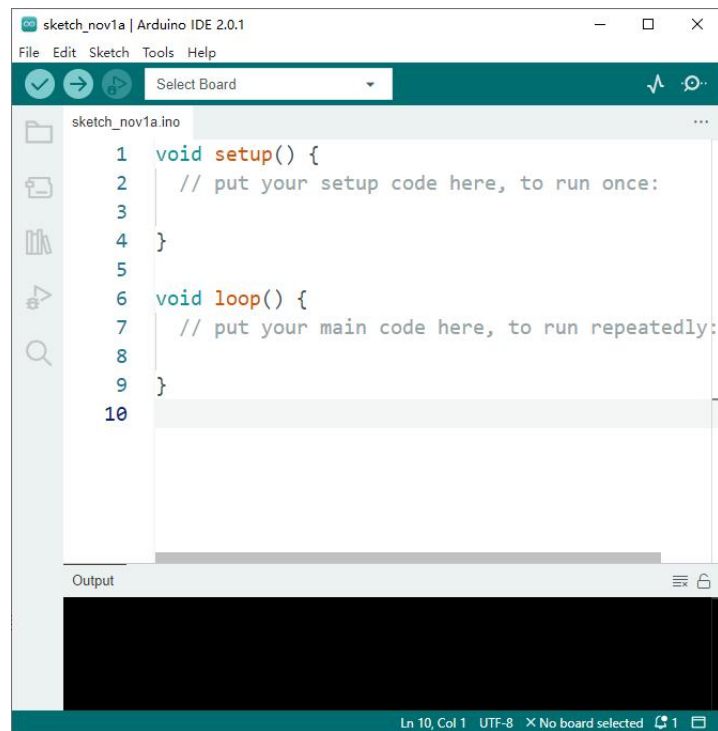


This screenshot shows the 'DOWNLOAD OPTIONS' section in detail. It lists the following options: Windows Win 10 and newer, 64 bits; Windows MSI installer; Windows ZIP file; Linux ApplImage 64 bits (X86-64); Linux ZIP file 64 bits (X86-64); and macOS 10.14: "Mojave" or newer, 64 bits.

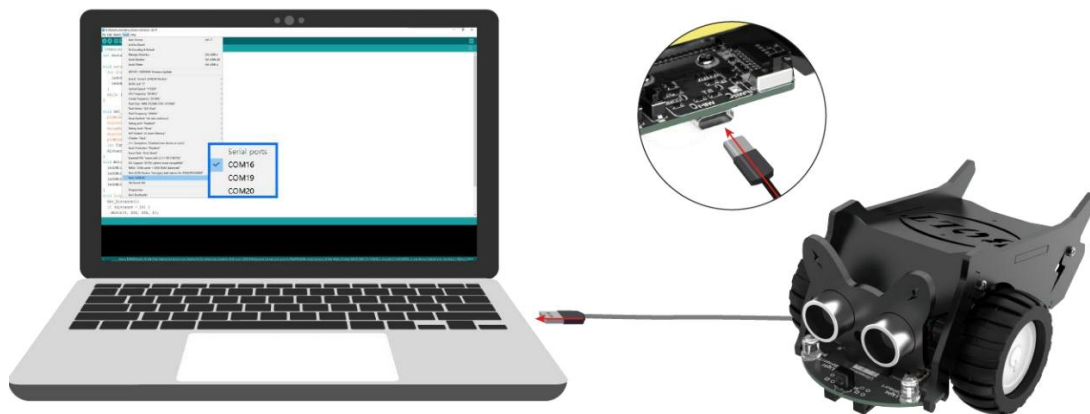
4. Open the installation package, select the installation path, and install the Arduino software;



5. Open Arduino IDE;



6. Connect the CrowBot-BOLT with the computer via the USB cable;



7. Click File ->Preferences ->Additional boards manager URLs->Add the following URLs:

https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_dev_index.json

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Preferences ×

Settings Network

Sketchbook location:
d:\Documents\Arduino BROWSE

☐ Show files inside Sketches

Editor font size: 20

Interface scale: ☒ Automatic 100 %

Theme: Light (Arduino) ▼

Language: English ▼ (Reload required)

Show verbose output during ☐ compile ☐ upload

Compiler warnings: None ▼

☐ Verify code after upload

☒ Auto save

☐ Editor Quick Suggestions

Additional boards manager URLs: https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_dev_index.json +

CANCEL OK

Preferences ×

Settings Network

Sketchbook location:

Additional Boards Manager URLs ×

Enter additional URLs, one for each row

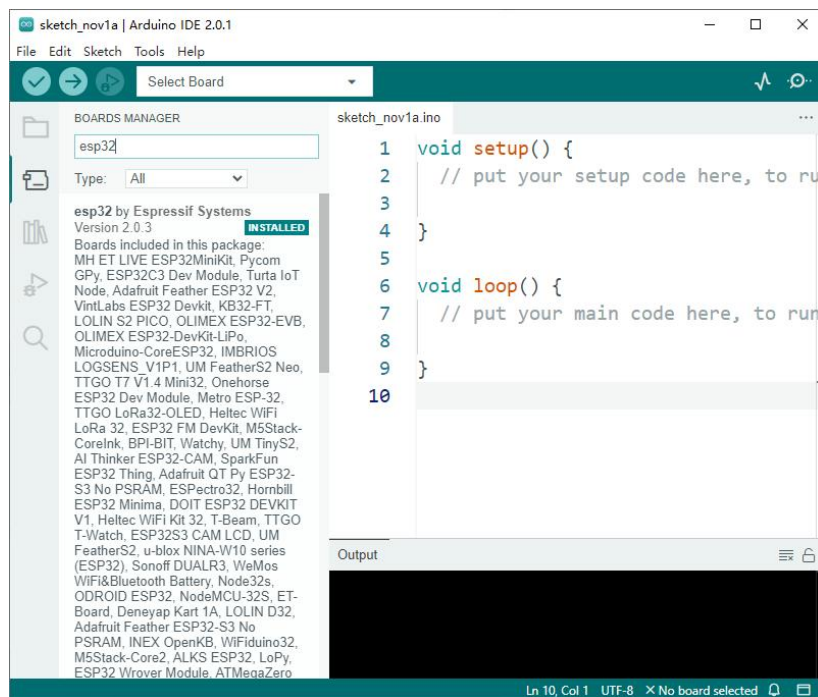
https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_dev_index.json
https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json

Click for a list of unofficial board support URLs

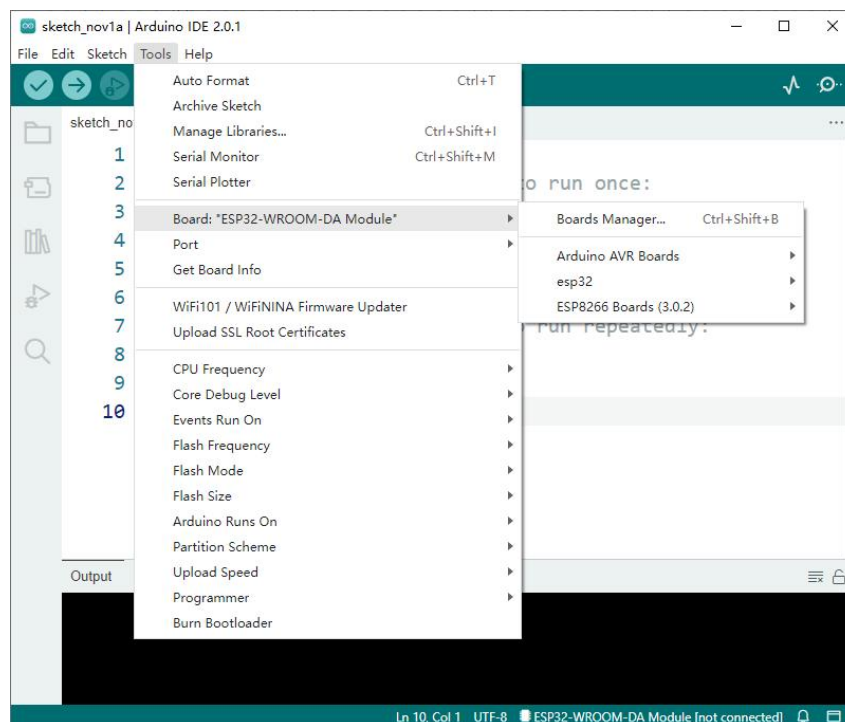
CANCEL OK

CANCEL OK

8. Install the esp32 hardware package. Click Tools ->Board ->Board Manager. Then search for esp, find esp32, and click Install.



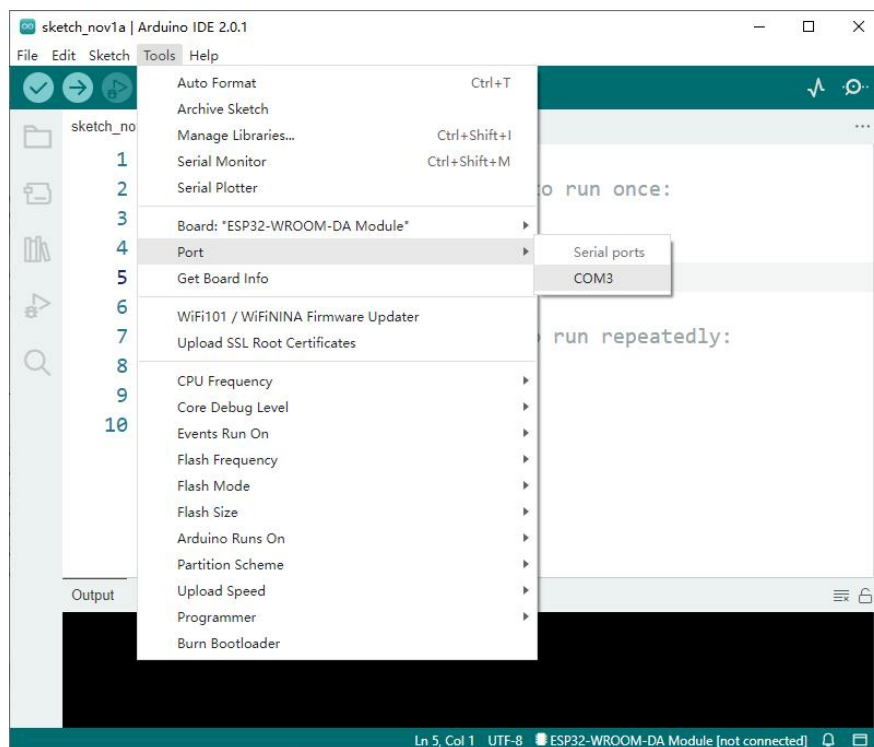
9. Click "Tools"->"Board" to pop up the motherboard selection window;



10. Click "ESP32 Arduino" and select "ESP32-WROOM-DA Module" motherboard from the pull-down menu;



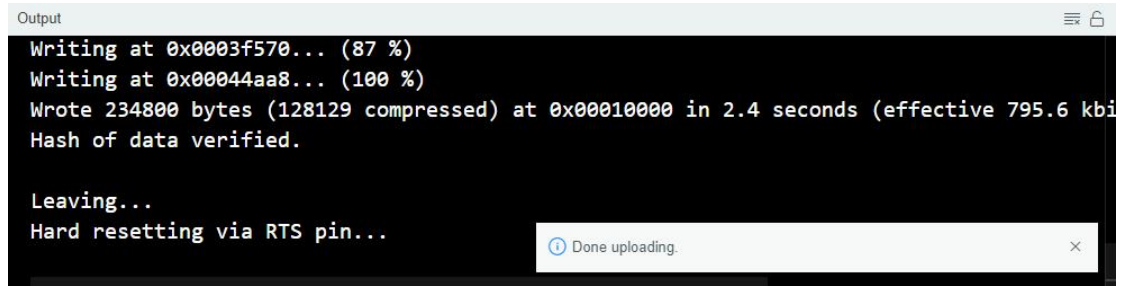
11. Click “Tools” -> “Port”, and select the corresponding serial port;



12. After editing the program, you can save the program to the computer. Click the Upload button below the menu bar to download the program.



13. After the program is successfully downloaded, it will be prompted that the download is successful, and then it can be executed.



The screenshot shows an IDE's output window with a dark background and light text. The text indicates a successful download and reset process. A small notification box in the bottom right corner says 'Done uploading.' with a close button.

```
Output
Writing at 0x0003f570... (87 %)
Writing at 0x00044aa8... (100 %)
Wrote 234800 bytes (128129 compressed) at 0x00010000 in 2.4 seconds (effective 795.6 kbi
Hash of data verified.

Leaving...
Hard resetting via RTS pin...
Done uploading.
```