

# Instructions for programming the Microcontroller

1. Download the Arduino IDE from <https://www.arduino.cc/en/Main/Software>
2. Install it on your PC
3. Download and Install the drivers from <https://wiki.wemos.cc/downloads>
4. To install the wifi board in the Arduino software
  - Start Arduino and open Preferences window.
  - Enter `http://arduino.esp8266.com/stable/package_esp8266com_index.json` into *Additional Board Manager URLs* field. You can add multiple URLs, separating them with commas.
  - Open Boards Manager from Tools > Board menu and find *esp8266* platform.
  - Select the version you need from a drop-down box.
  - Click *install* button.
5. Finally go to Tools>board menu and select Wemos D1 mini (retired)  
Set the upload rate to 115200
6. Open the livinglamp.ino code by double clicking on it.
7. Got to sketch>include library>manage libraries
8. In the search bar, search for and install the adafruit neopixel library
9. Click Upload to burn the code onto the microcontroller.