Kitchen 5V Addressable LEDs
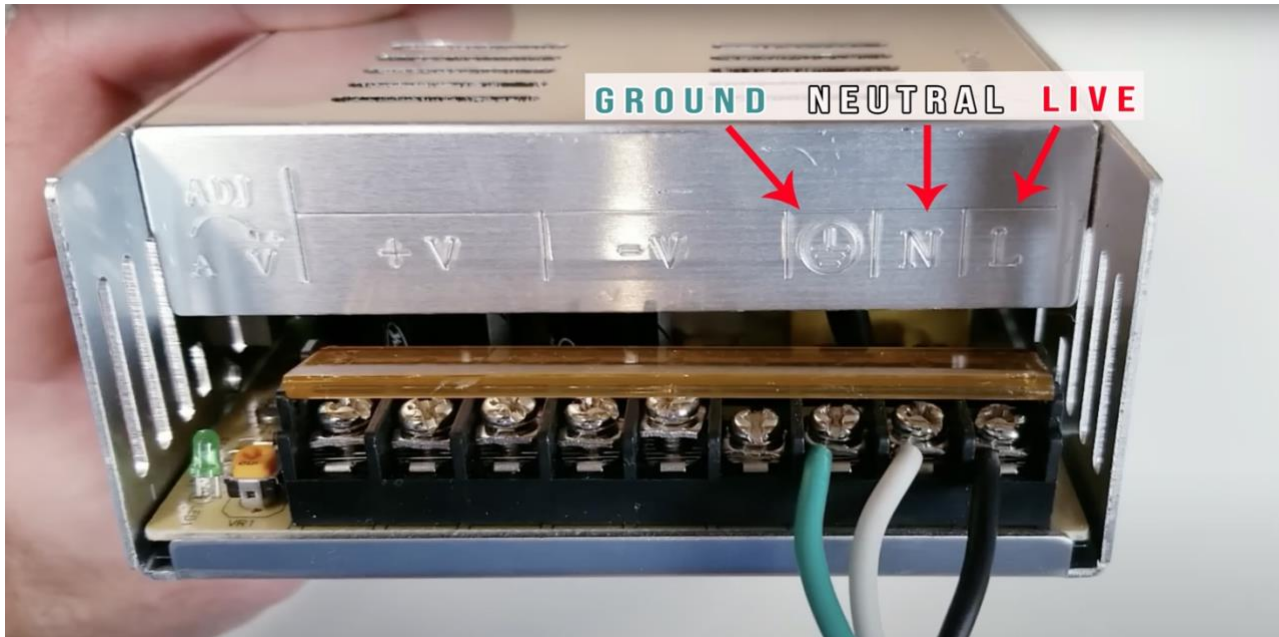
Kitchen Cabinet Upper & Lower:

Total length of LED strips ordered 16.4 x 2 = 32.8 ft
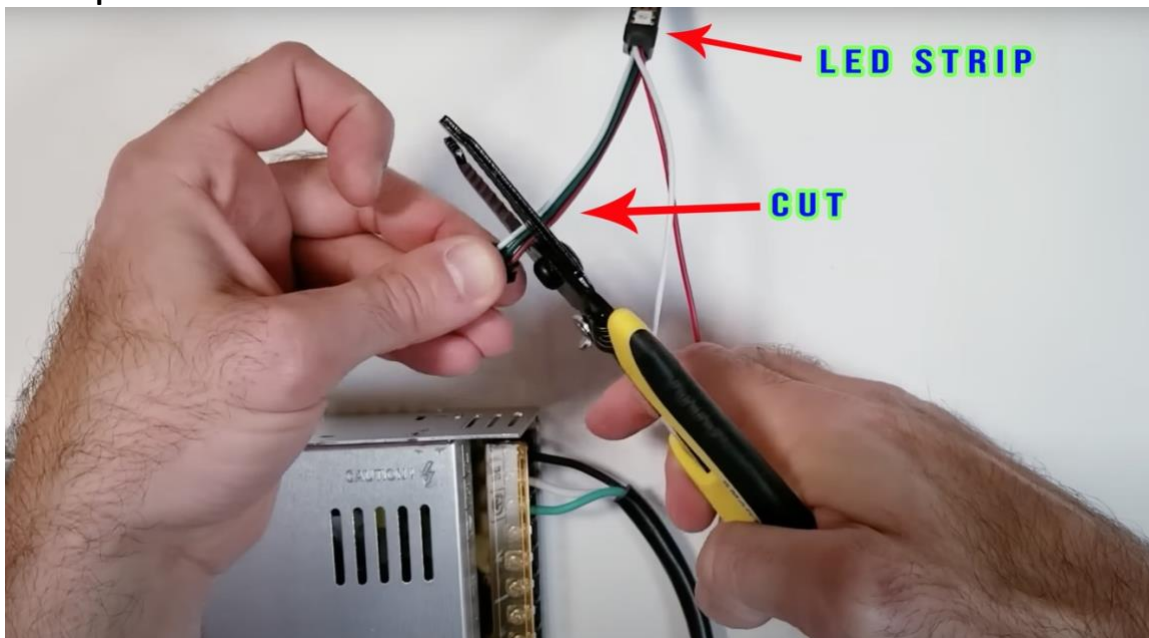
Total length of cabinet = 34.8 ft

Materials:

- 16 AWG, 6 ft, 13A Power Cord
- 5V 60A Transformer Switching Driver Power Supply
- ESP8266 Wi-Fi Module
- BTF LED Strips 60/m IP30
- BTF LED corner connectors
- Aluminum Channel 12mm
- 18 AWG Silicone Stranded Wire (Multicolored)
- Helping Hands Soldering Tool
- Flux Paste
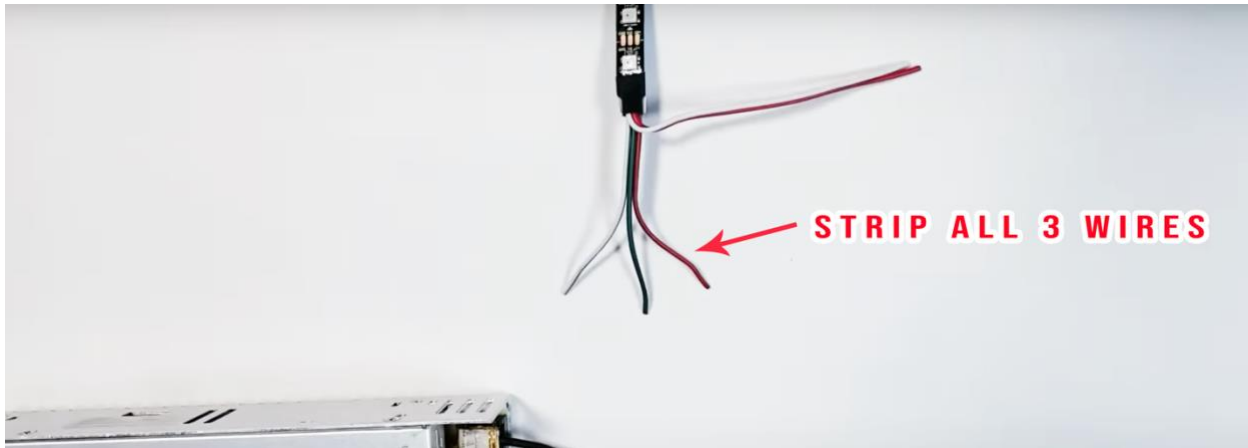- Soldering Iron Holder w/Brass Coil Cleaner

Description: Kitchen LED
Date: 12/16/2022

Step 1 - Install Power cord to 5V60A power supply:
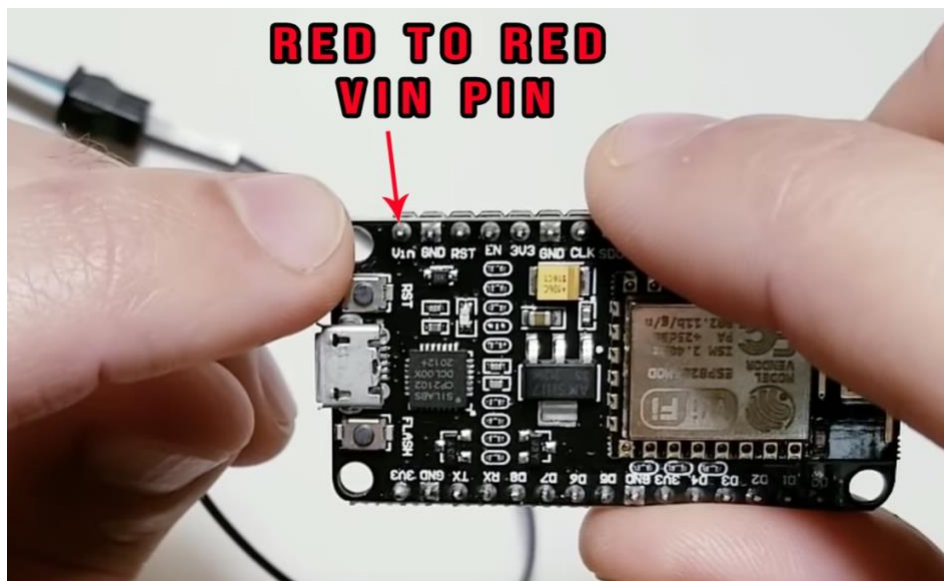

Step 2 - Cut the LED wires:
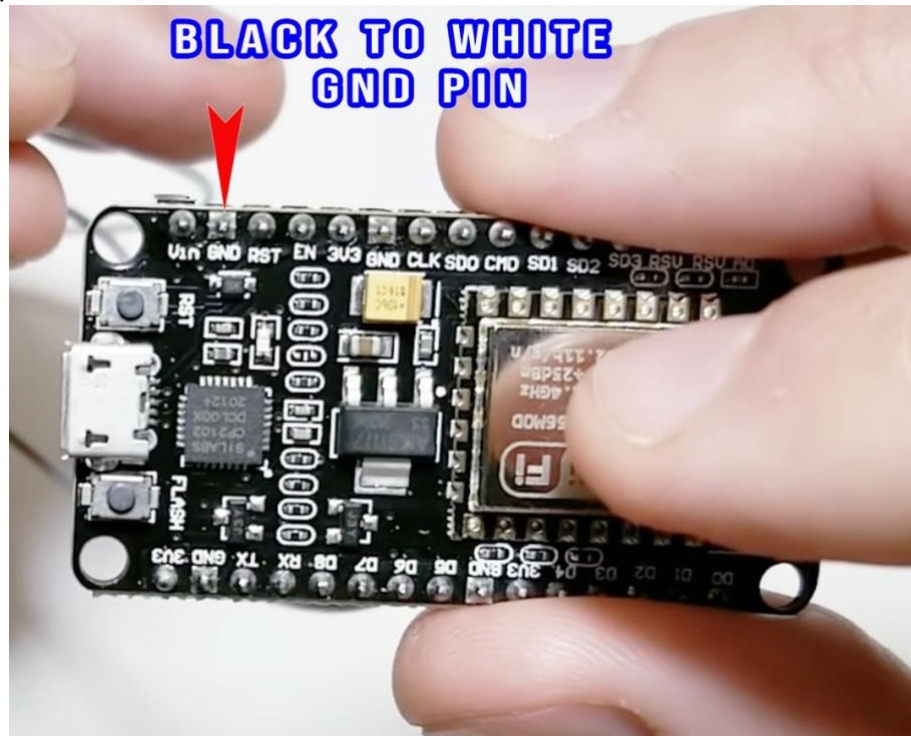
Step 3 - Strip all (3) LED Wires

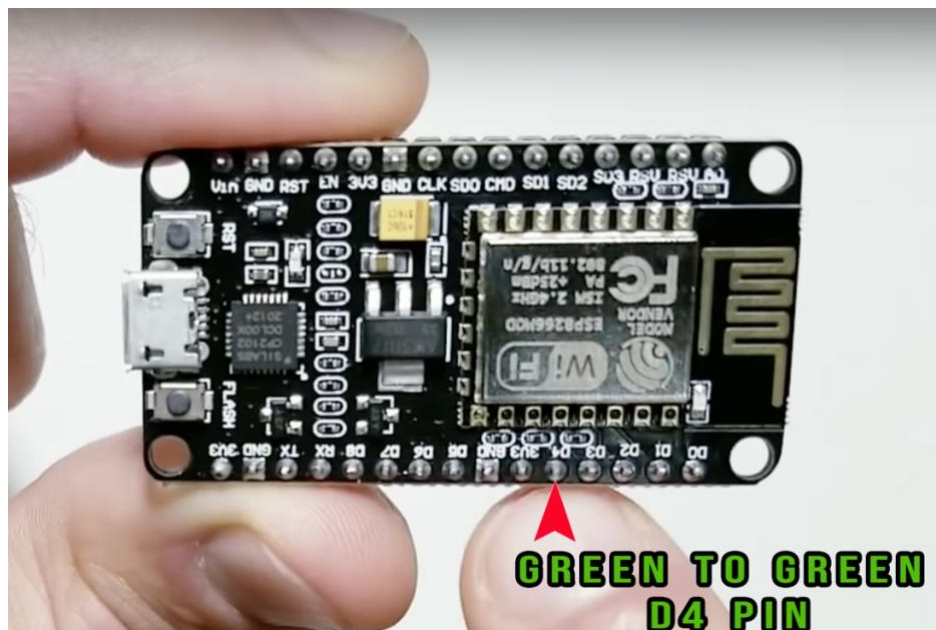**Step 4** – ESP8266 Wi-Fi Board (3) wires

- Pair Red to Red – Twist together that's going to the VIN pin on the module to the red voltage wire connected to the LED lights

- Pair Black to White – Twist together, black wire is coming from Wi-Fi module to the GND white wire on the LED lights

- Pair Green to Green – Data wires

Step 5 – Terminate wires to the 5V 60A power supply (Unplugged Power Supply).

Positive Terminal +V:
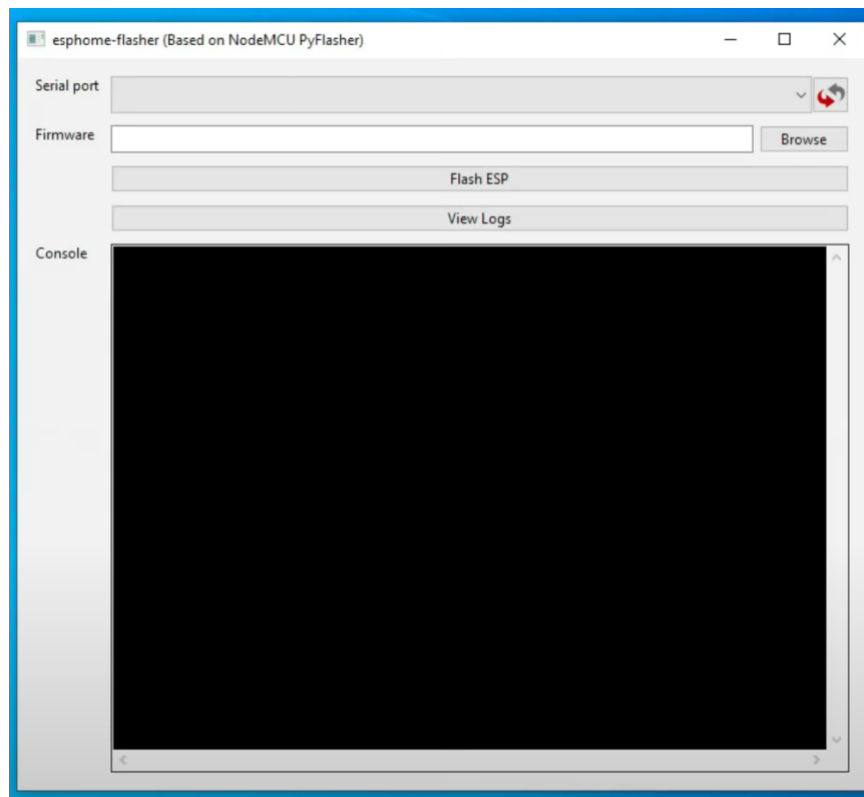- Terminate the red wires in the 1st slot.

Negative Terminal -V:
- Terminate the black and white wires in the 4th slot.

Step 6 – Download Software from GitHub (macOS Version)
- Flasher Software - Flasher App (Load the flash drive first)
- WLED Software - WLED Software (Download the latest software version)
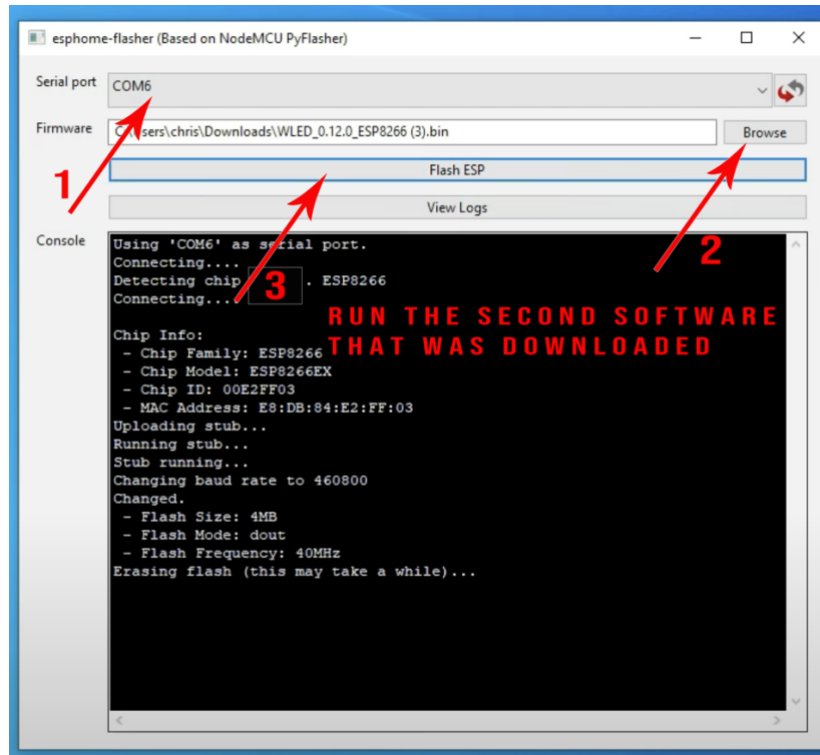
Step 7 – Run Software
- Run the flasher software

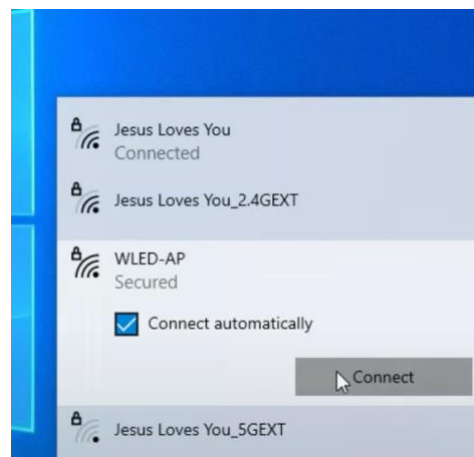- Plug in the ESP8266 Wi-Fi Module to computer with a USB cable

- Run the 2nd software which is the firmware

Description: Kitchen LED
Date: 12/16/2022

Step 8 – Connect the ESP8266 to Wi-Fi
- Click on WLED-AP to connect
- Enter Default Password (lowercase): wled1234
- Click Next
- Automatically sends you to the WLED Homepage
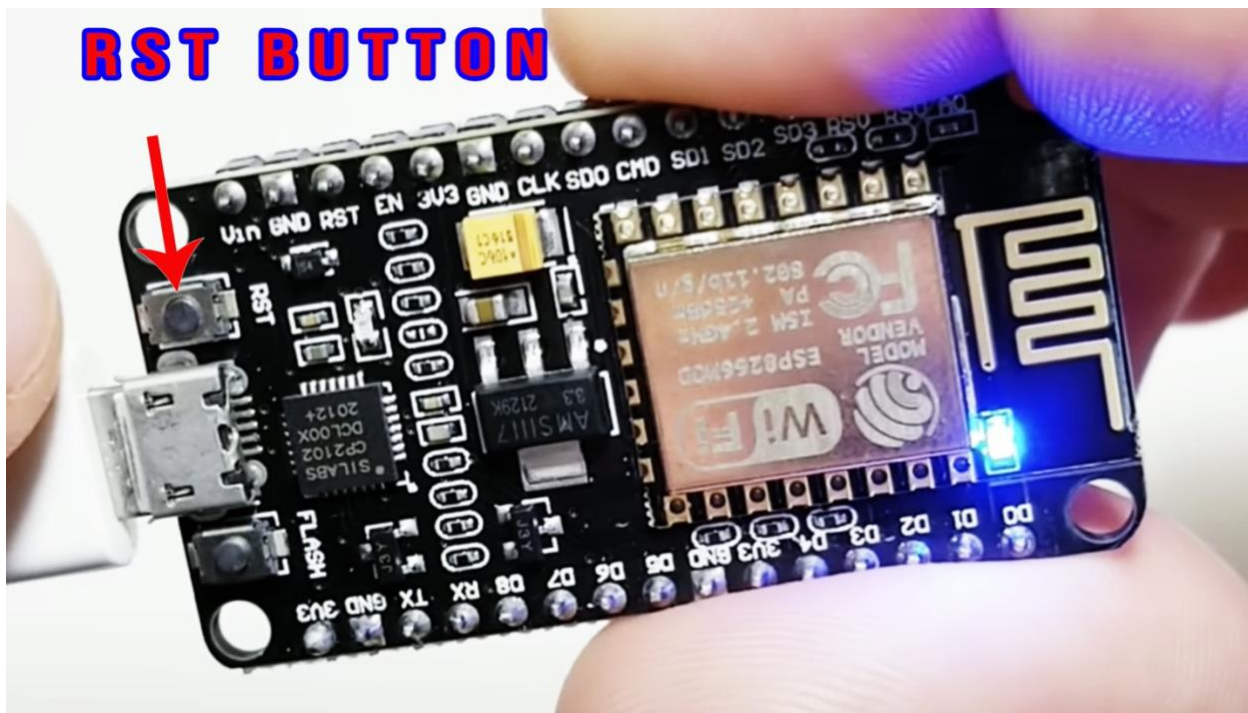- If you're not transferred to the website, in the URL type in 4.3.2.1

Step 9 – WLED Home Page

Description: Kitchen LED
Date: 12/16/2022
- Click on WIFI SETTINGS
- Enter in the SSID (Network Name)
- Enter Network Password
- Create a name you can remember htttp://looseCannon.local (Example)
- Click Save & Connect
- Close out the website

Step 10: Pick up the ESP8266
- Hit the "RST" button on the left of the charging cable. This will save everything you have entered.
- Then, make sure the device is connected to the Wi-Fi

Step 11 – URL address and WLED Settings
- Type in your URL looseCannon.local (Example)
- Click Config > LED preferences
- Enter in Total LED count:
- Hit Save > Back
- Go to the color wheel and make sure the colors match up
- If colors do not match up go to Config > LED Preferences
- Scroll down to LED outputs:
- Play with the color order to get a color match you desire