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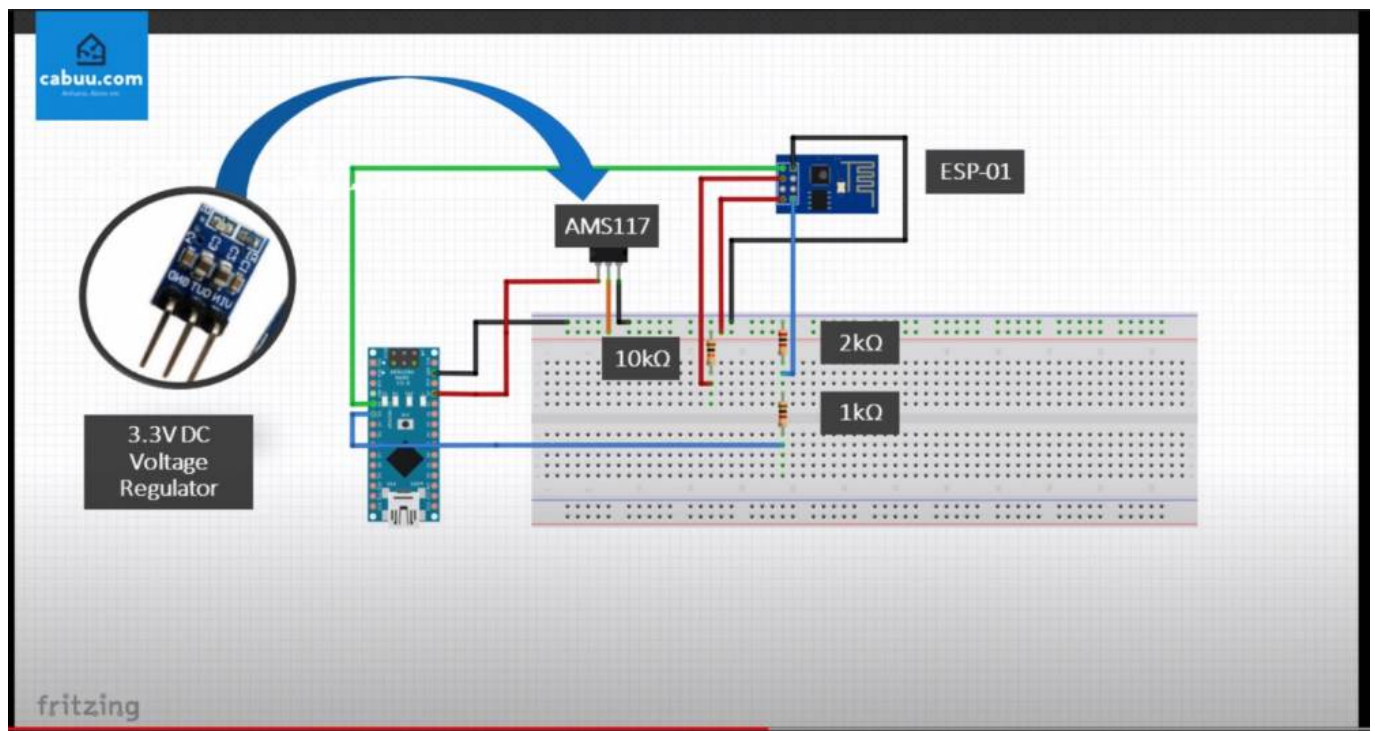
<https://arduino.stackexchange.com/questions/78552/wiring-up-an-esp-01-to-nano?answertab=votes#tab-top>

<https://www.electronicshobby.com/2017/11/learn-how-to-setup-wifi-module-esp8266.html>

https://www.youtube.com/watch?v=YKn2ZXYb_EI

arduino nano esp8266 esp 01 wifi

use buck converter (LM2596) for 3.3v



- There is a bug in the code:
- `SoftwareSerial softSerial(3, 2); RX, TX` * should be * `SoftwareSerial softSerial(2, 3); RX, TX`
- Also the suggested baud rate of 9600 doesn't seem to work, adjust to 115200 and go from there. Once you get a receiving signal, run the following to adjust the 01's baud to 9600:
- `AT+UART_DEF=9600,8,1,0,0`
- After this, reflash your nano with serial bauds set to 9600 and you should be able to send AT commands over your Nano to the ESP-01 via 9600 baud

```
#include <SoftwareSerial.h>
SoftwareSerial softSerial(2, 3); // RX, TX

void setup()
{
  uint32_t baud = 9600;
  Serial.begin(baud);
  softSerial.begin(baud);
  Serial.print("SETUP!! @");
  Serial.println(baud);
}

void loop()
{
```

```
while(softSerial.available() > 0)
{
  char a = softSerial.read();
  if(a == '\0')
    continue;
  if(a != 'r' && a != 'n' && (a < 32))
    continue;
  Serial.print(a);
}
while(Serial.available() > 0)
{
  char a = Serial.read();
  Serial.write(a);
  softSerial.write(a);
}
}
```

- AT - Will give OK on the serial monitor, if Not just unplug vcc Pin of ESP8266 Module for a moment and reconnect again.
- Send AT+RST - Command to Restart module / Optional Command
- Send AT+GMR - To get the firmware version
- Send AT+CWMODE? - Set Module to a Dual Mode Sucha as Standalone + Access Point mode.
- Send AT+CWLAP - Command to Search Nearby Wifi Access Point. Find your Wifi Name in the Search Result.
- Send AT+CWJAP="Your Wifi Name", "Your Wifi Password" - Command to Connect to WIFI.
- Send AT+CIFSR - Command to Check Allocated Ip given by your Wifi to your ESP8266 Module/Optional Command.

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