Credit to **Jeffwong** for creating the step-by-step guide.

- 1. Install Python 3.4 or above
- 2. create a folder on the desktop and download the firmware from here "https://github.com/mrbonkerz/ESP-Miner-LVXX/releases"

file needed "esp-miner-factory-lv08-v2.6.1-1.0.4.bin"

- 3. install putty (for verified the connection eg: COM4 testing)
- 4. On Putty, go to Serial and configure the value as shown in the screenshot.
- 5. Once the value is configured, go back to Session> select Serial and click Open.

PuTTY Configuration		?	×	
Category:				
	Basic options for your PuTTY session			
Logging	Specify the destination you want to connect to			
Keyboard	Serial line	Speed		
Bell	COM4	115200		
Window Appearance Behaviour Translation	Connection type: Raw Telnet Rlogin SSH Serial			
	Load, save or delete a stored session			

Session Coptions controlling local series Coptions Select a serial line	llines
Heyboard	4
Berial Ine to connect to	000
Berial Ine Configure the serial Ine Features Configure the serial Ine Window Appearance Speed (baud) 115 Beriavour Data bits Translation Stop bits Octores Proy Proy Flow control Non SSH Serial	3 ~ ~

i.ensure your UART driver is installed successfully > check on device manager

ii. user multimeter test your soldering is solder properly

Continue:

- 6. Once you click the Open button in Putty, you should see a blank screen to ensure your connectivity and power on your LV08. Then, Putty will display the boot screen with some information and proceed to the next step. (basically, Putty for you to verify the connectivity before going to download mode and start using Bitaxe tools for flashing)
- 7. After you installed Python 3.4 > go to the newly created folder with your LV08 bin file, open the command prompt with the exact location folder, and enter this
- pip install --upgrade bitaxetool
- once the installation pip bitaxetools > for verify, enter (if you successfully install bitaxetool using pip)
- bitaxetool -help to see any response showing helpful information.

```
C:\Users
             bitaxetool
lashing firmware: None
Flashing config: None
             bitaxetool -h
C:\Users
usage: bitaxetool [-h] [-p PORT] [-f FIRMWARE] [-c CONFIG] [--validate_config]
Flash firmware and config to a device.
options:
 -h, --help
                        show this help message and exit
 -p PORT, --port PORT The serial port to connect to.
 -f FIRMWARE, --firmware FIRMWARE
                        The binary file to flash.
 -c CONFIG, --config CONFIG
                        The config file to flash.
 --validate_config, --validate
                        Validate the config file before flashing.
C:\Users\
```

8. If yes, you are ready to go into download mode, but how do you verify you are on download mode using putty again? Once you see 'Download Mode' on Putty, then close the putty.

- 9. Open a new command prompt terminal and go to the folder that you download LV08.bin
- enter this command
- bitaxetool -p COM4 --firmware ./esp-miner-factory-LV08.bin
- then you just wait for the magic to happen

C:\Users\	>bitaxetool -p COM4 -f esp-miner-factory-lv08-v2.6.0-1.0.3.bin
Connecting to port: COM4	
Flashing firmware: esp-miner-factory-lv08-v2.6.0-1.0.3.bin	
Flashing config: None	
esptool.py v4.8.1	
Serial port COM4	
Connecting	
Detecting chip type ESP32-S3	
Chip is ESP32-S3 (QFN56) (revision v0.2)	
Features: WiFi, BLE, Embedded PSRAM 8MB (AP_3v3)	
Crystal is 40MHz	
MAC: d8:3b:da:6f:a9:08	
Uploading stub	
Running stub	
Stub running	
Configuring flash size	
Flash will be erased from 0x00000000 to 0x00f11fff	
Compressed 15802368 bytes to 1602870	
Wrote 15802368 bytes (1602870 compressed) at 0x00000000 in 178.5 secon	nds (effective 708.2 kbit/s)
Hash of data verified.	
Leaving	

Hard resetting via RTS pin...