

Hello, my dear friends!

After some feedback on my first version and a lot of discussion with you all. I have taken into account and made the improvements that were asked of me and adapted in relation to certain strange behavior (often errors on my part... wanting to go too quickly lol)

I am therefore happy to announce this new version of the printer.cfg for the **Neptune 4** BUT also for the **Neptune 4 Pro!!!**

My friend Tom's Basement helped me enormously with the first modifications and Romain Tassus actively participated in testing a version for the Neptune 4 Pro. I would like to thank them as well as everyone who gave me input.

**(ATTENTION You will have to redo all your calibrations and make a backup of your original printer.cfg file for security, also be sure that you can make the modification and do so knowingly. DON'T FORGET TO MAKE THE PID IT'S IMPORTANT)**

We therefore made various changes:

- Reorganization by section:
  - Base Config
  - X/Y/Z Stepper Settings
  - TMC UART configuration
  - Extrude
  - Bed Heater
  - Fan Control
  - Acceleration sensor
  - Homing and Gantry Adjustment Routines
  - Probe
  - LED Control
  - Filament sensor
  - Macros
  - Other
- Changed microsteps from 16 to 64 for all axes and extrude
- run\_current goes from 0.8 to 0.55 for the XY axis (the motors go from more than 60°C to maximum 50°C)
- Disabling hold\_current as advised in the Klipper documentation.
- interpolate changes from true to false.
- The stealthchop\_threshold values remained the same otherwise the motors make a lot more noise.
- **The control of the bed is done via PID and more watermark which gives better heating stability (be careful to calibrate for each machine, there are macros that I added in order to do them by pressing a button on the Web interface)**
- The maximum bed temperature goes from 200 to 120 (no sense in setting 200°C)
- The input\_shaper section was present 2 times, so I kept the most consistent.
- Modification of the Start and End Print macro (the new Start and end gcode to put in the slicer can be found below)

- Adding an M600 Macro
- Adding an M702 macro
- Added a Load/Unload filament macro to have this option on the web interface
- Added a PID macro for the bed and to extrude it (210/60)

Update compared to the previous version:

- Double bed management (for the Pro)
- Modifying the PRINT\_START and PRINT\_END macros
- **Added a PID macro for the BED2 (For the Pro)**
- The PIDs for the Pro have been adapted (but be sure to redo them)
- The extruder steps have been adapted for the Pro (Check and recalibrate if necessary)
- Added [include plr.cfg] that I didn't have my version
- Addition in the START and END gcode of the lighting of the LEDs at the start of print and closing at the end of print (can be removed if necessary)
- **The run\_current was set to 0.55 (instead of 1.2) even for the pro version after verification they are the same engine. (it's up to you if you want to increase but I prefer to preserve the motors as much as possible, the manufacturer's values allow for higher speeds. The tests carried out with the benchy gcode (18min) show that reducing the current no longer allows to have such speeds. So here I will leave 0.55 but a version with the original run\_current is also available)**
- Addition of the [screws\_tilt\_adjust] function which allows you to adjust the height of the 4 screws manually (see YouTube tutorial or klipper documentation)
- Fixed BED\_MESH which should have a probe\_count of 11.11 and not 6.6
- add [bed\_screws] option

Everything has been tested several times and BUT if you encounter a bug do not hesitate to let me know. In any case at home for the N4 everything is going wonderfully my prints are clean and I am still delighted and amazed by this machine.

We hope that the printer.cfg that we share with you can be useful because it really improves the machine and gives it a better life expectancy based on the temperature of the motors alone.

**ATTENTION A file with the START and END Gcode adapted (must be absolutely integrated into your slicer for proper functioning)**

**All files are available here:**

**[https://drive.google.com/drive/folders/1INA\\_ENxjiAfpFXLbg-fL4cn2ID2i2Hbl?usp=sharing](https://drive.google.com/drive/folders/1INA_ENxjiAfpFXLbg-fL4cn2ID2i2Hbl?usp=sharing)**

I also made an explanatory video to show how to put the new printer.cfg (in French) here:

<https://www.youtube.com/live/P2hcYcHyxnU?si=wk1b7P6mcZJehmkQ>

You can find Tom and I on our YouTube channels:

<https://www.youtube.com/@printernbeer>

<https://www.youtube.com/@tomsbasement>

Looking forward to your feedback and input.

Long life and prosperity, may the power of print be with you!