

Klipper

Klipper is an alternative firmware for 3D printers' micro-controllers. The default firmware for most 3D printers is Marlin. Klipper consists of 2 parts, the micro-controller firmware to control basic motor and print head and software running on an attached general purpose computer like a Raspberry Pi or a PC.

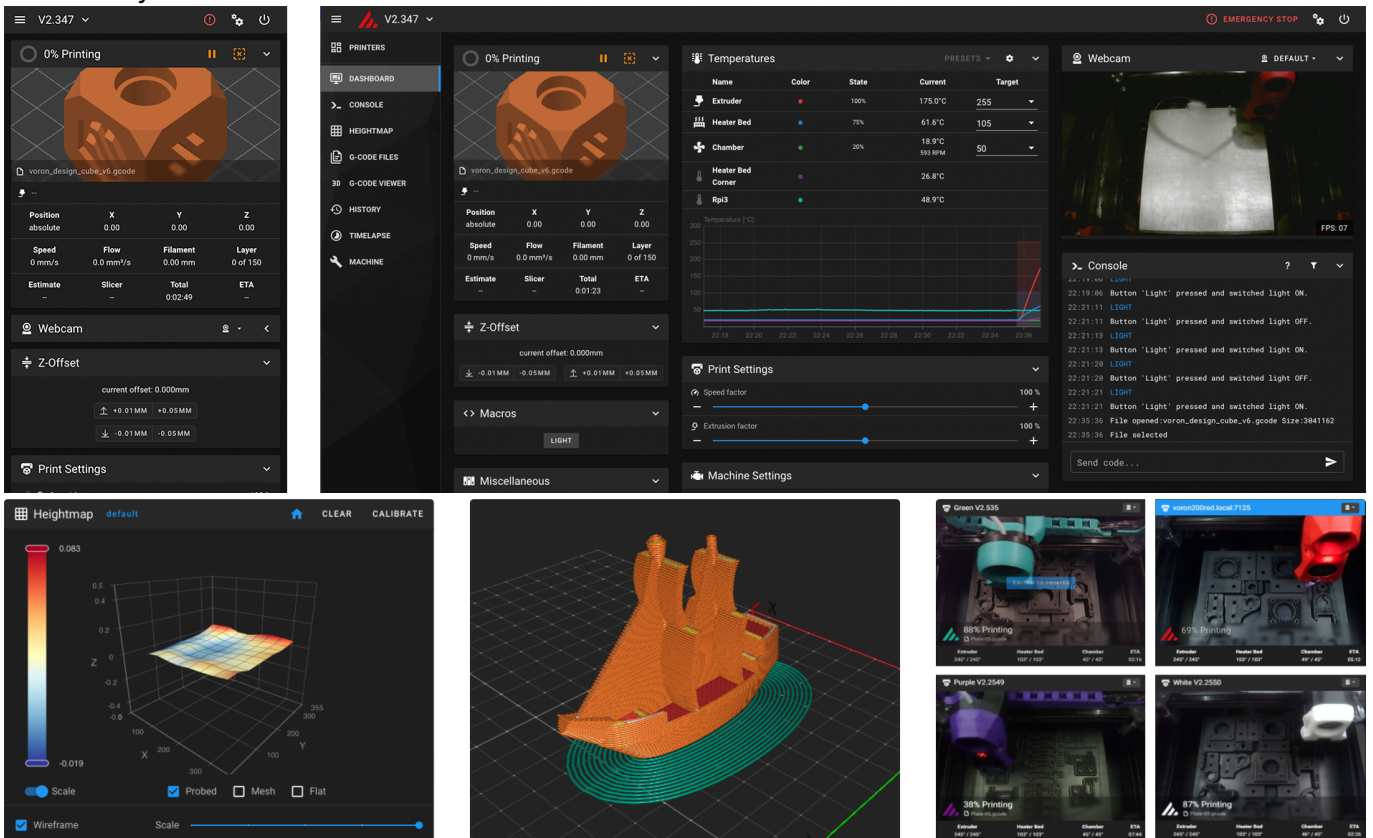
Details on <https://www.klipper3d.org>

Octoprint was designed for Marlin firmwares, but can work with Klipper through a plugin: <https://all3dp.com/2/install-octoprint-klipper-single-board-computer-sbc/>

Installing Klipper and OctoPrint: The tool of our choice is [Klipper Installation And Update Helper \(KIAUH\)](#), which streamlines the installation process by reducing user inputs to the bare minimum and adding a graphical interface. It also helps manage updates and removal of every component.

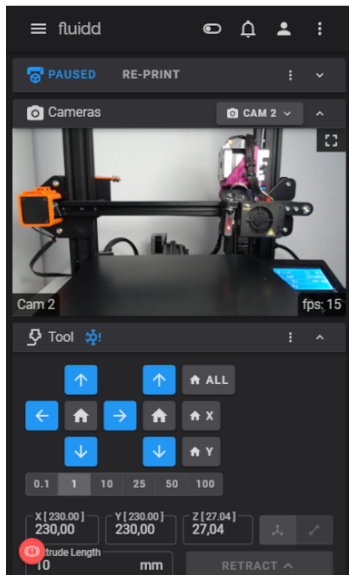
[Arksine/Moonraker](#) is a Python 3 based web server that exposes APIs which client applications can use to interact with Klipper.

There are several Web interfaces that can interact with Klipper through Moonraker's APIs: Octoprint [Mainsail](#) by Mainsail-Crew

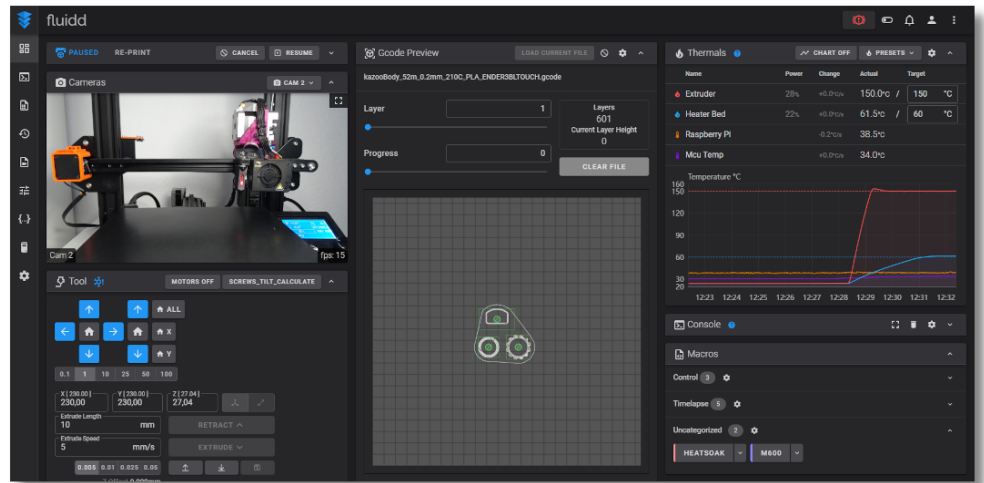


[Fluidd](#) by Cadriel

mobile



desktop



Touchscreen GUI: [KlipperScreen](#) by jordanruthe

[Obico for Klipper](#) is a Moonraker plugin that enables the Klipper-based 3D printers to connect to [Obico](#). This provides remote access as well as AI Failure detection.

[PrettyGCode for Klipper](#)

[OctoEverywhere](#) Octoprint Plugin for remote access/monitoring and AI Failure detection

General setup info for Klipper:

<https://www.youtube.com/watch?v=WITzVUTOGXQ&list=PLC4bOo0vesmLKXC2iWGTRBbbjXiHDj3Xz>

3D Printer Accelerometer, very useful for improved printing speeds with Klipper: [adx1345](#)

[accelerometer https://www.klipper3d.org/Measuring_Resonances.html](https://www.klipper3d.org/Measuring_Resonances.html)

https://www.reddit.com/r/klippers/comments/z38v02/adx1345_via_usb/

https://dfh.fm/products/kusba-adx1345-accelerometer-by-xbst_

Extruder/bed mount design: <https://www.thingiverse.com/thing:5276353/comments>

docker setup for klipper/moonraker/mainsail (outdated)

https://www.reddit.com/r/klippers/comments/lv3pxx/docker_setup_for_klippermoonrakermainsail/

Docker setup for klipper/moonraker and various frontends: <https://github.com/mkuf/primd>

<https://hub.docker.com/r/mkuf/klipper>

Cura plugin for improved printing of circular areas with Klipper: [arcwelder cura plugin](#)

Klipper config file for the Creality Ender 3 S1:

<https://raw.githubusercontent.com/Klipper3d/klipper/master/config/printer-creality-ender3-s1-2021.cfg>



```
mount /dev/sdc1 /mnt/usb
cp out/klipper.bin /mnt/usb
mkdir /mnt/usb/STM32F4_UPDATE
cp out/klipper.bin /mnt/usb/ST
M32F4_UPDATE/firmware.bin
umount /mnt/usb
```

From:

<http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link:

<http://wuff.dyndns.org/doku.php?id=3dprinter:klipper&rev=1693342311>

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