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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.

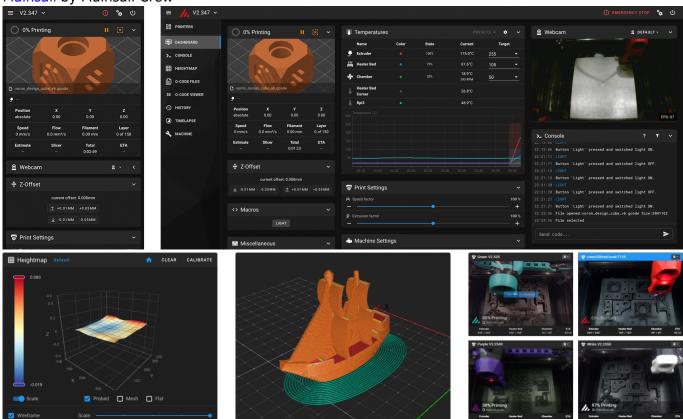
Details on https://www.klipper3d.org

Octoprint was designed for Malin 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.

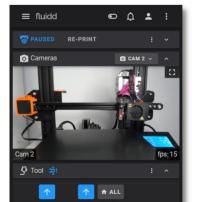
There are several Web interfaces that can interact with Klipper through Moonraker's APIs: Octoprint Mainsail by Mainsail-Crew



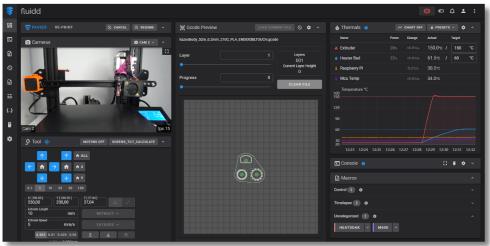
Fluidd by Cadriel

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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 Al Failure detection

General setup info for Klipper:

https://www.youtube.com/watch?v=WITzVUTOqXQ&Iist=PLC4bOo0vesmLKXC2iWGTRBbbjXiHDj3Xz

3D Printer Accelerometer, very useful for improved printing speeds with Klipper: adxl345 accelerometer https://www.klipper3d.org/Measuring_Resonances.html https://www.reddit.com/r/klippers/comments/z38v02/adxl345_via_usb/ https://dfh.fm/products/kusba-adxl345-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/prind https://hub.docker.com/r/mkuf/klipper

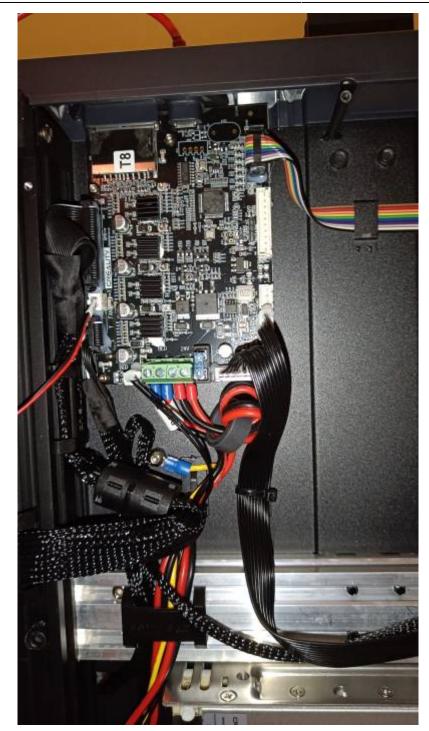
Cura plugin for improved printing of circular areas with Klipper: arcwelder cura plugin

Klipper config file for the Creality Ender 3 S1:

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

http://wuff.dyndns.org/ Printed on 2025/09/08 10:27

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```
wget
https://raw.githubusercontent.com/mkuf/prind/main/docker-compose.extra.make.
yaml -0 docker-klipper-make.yaml
mkdir config
touch config/build.config
alias make="docker compose -f docker-klipper-make.yaml run --rm make"
make menuconfig
make
#make flash FLASH_DEVICE=/dev/serial/by-id/<my printer>
```

S1 & S1 Pro. To use this config, check the STM32 Chip on the # Mainboard, during "make menuconfig" select accordingly either the

This file contains pin mappings for the stock 2021 Creality Ender 3

```
# STM32F103 with "28KiB bootloader" or the STM32F401 with
# "64KiB bootloader" and serial (on USART1 PA10/PA9) for both.
# For a direct serial connection, in "make menuconfig" select
# "Enable extra low-level configuration options" and Serial
# (on USART2 PA3/PA2), which is on the 10 pin IDC cable used
# for the LCD module as follows: 3: Tx, 4: Rx, 9: GND, 10: VCC
# Flash this firmware by copying "out/klipper.bin" to a SD card and
# turning on the printer with the card inserted. The filename
# must be changed to "firmware.bin"
# With STM32F401, you might need to put "firmware.bin" in a
# folder on the SD card called "STM32F4 UPDATE" in order to flash.
# See docs/Config Reference.md for a description of parameters.
Configuring Klipper/Moonraker
All Runtime Configs are stored within config of this Repo.
    Update config/printer.cfg with your Klipper config, set the serial
device and make sure to not remove the existing Macros as they are required
by fluidd/mainsail. See Klipper3d Docs for Reference
    Make sure to update cors domains and trusted_clients within
moonraker.cfg to secure your moonraker api from unwanted access. See
Moonraker Docs for Reference
```

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

https://github.com/mkuf/prind#advanced-topics

https://github.com/mkuf/prind#input-shaper-calibration

Permanent link:

http://wuff.dyndns.org/doku.php?id=3dprinter:klipper&rev=1693355148

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