

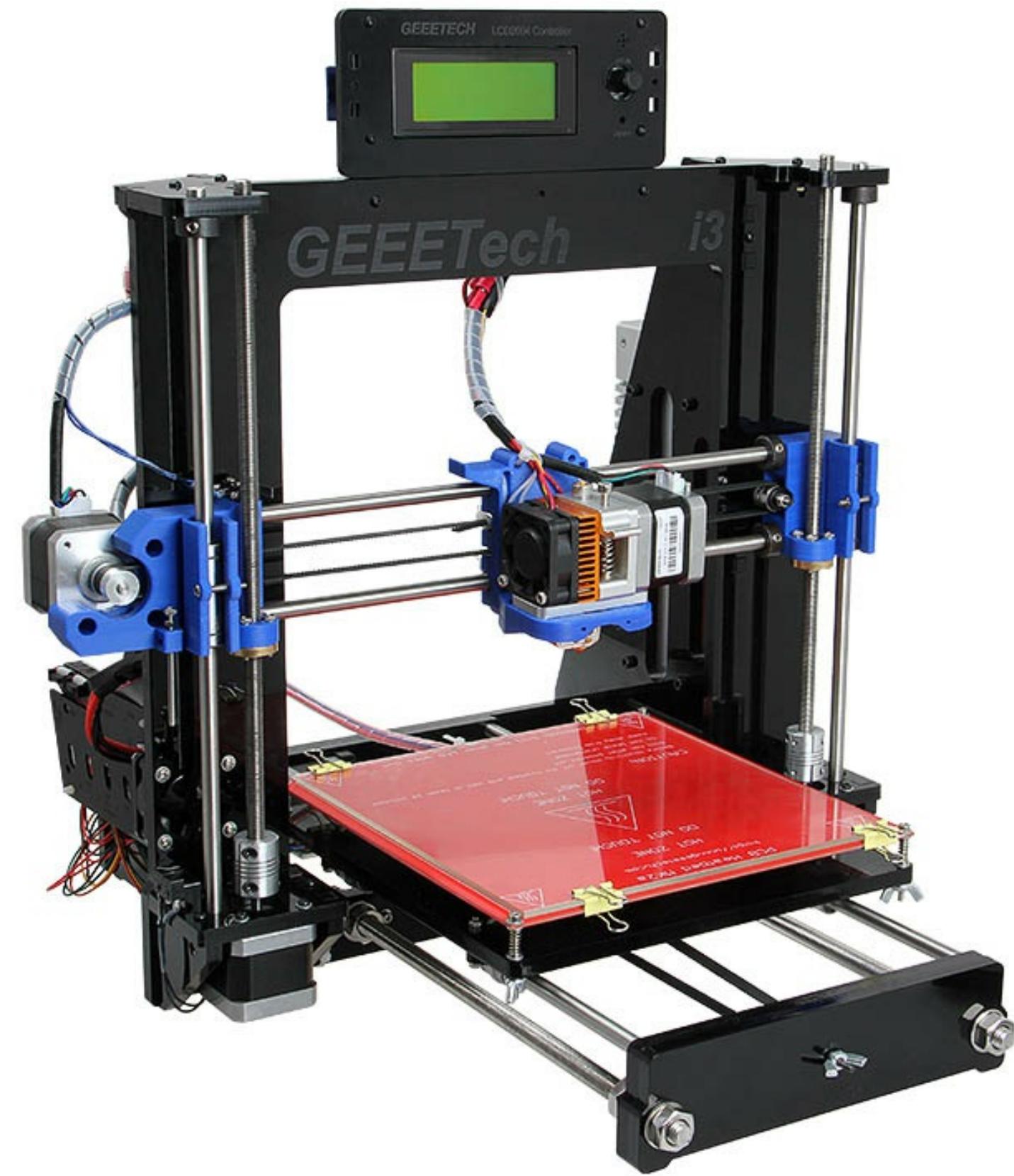
MELBPC 3D PRINTER

Presenter: Mohan Gupta

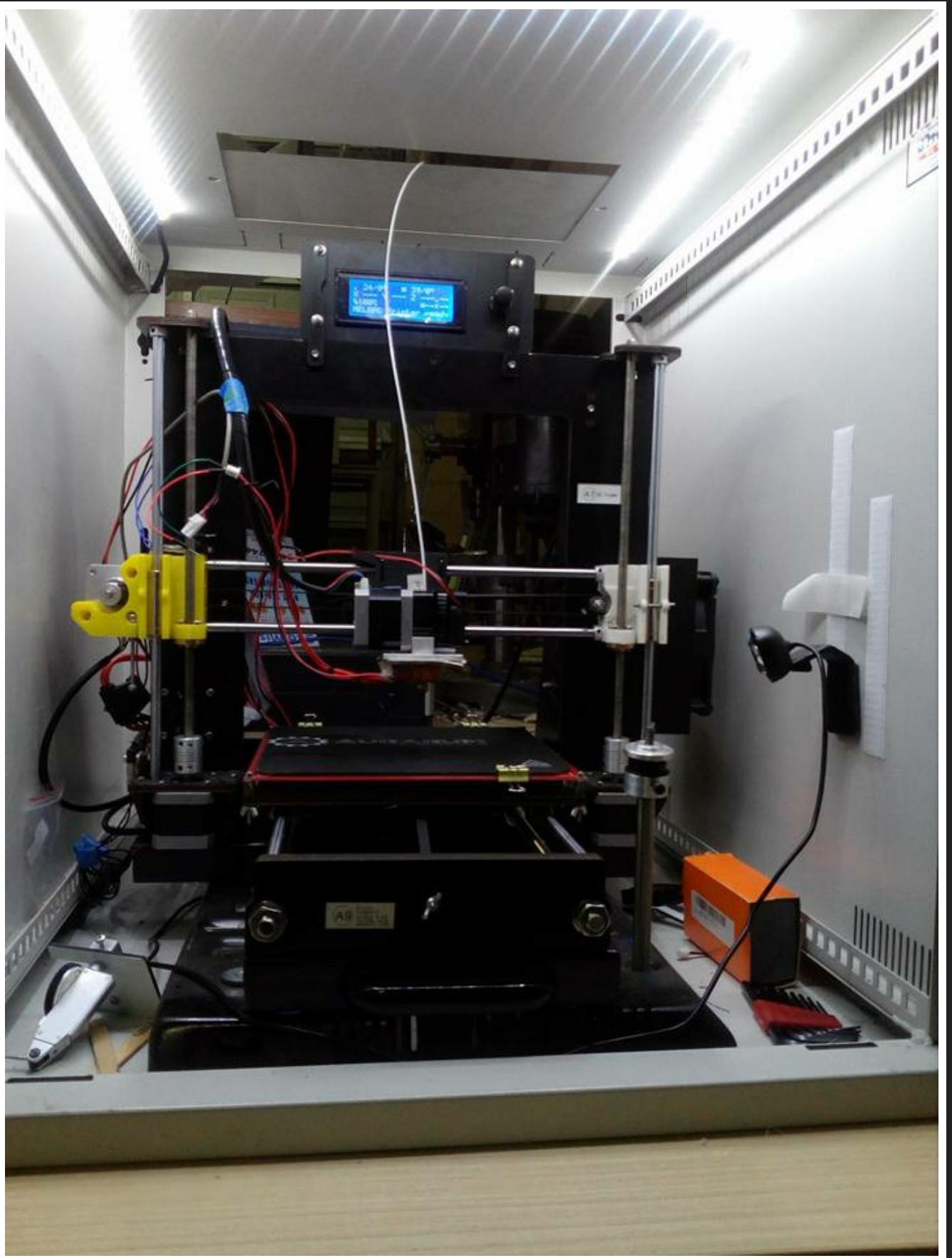
SIG Convener: Raspberry Pi SIG - Moorabbin

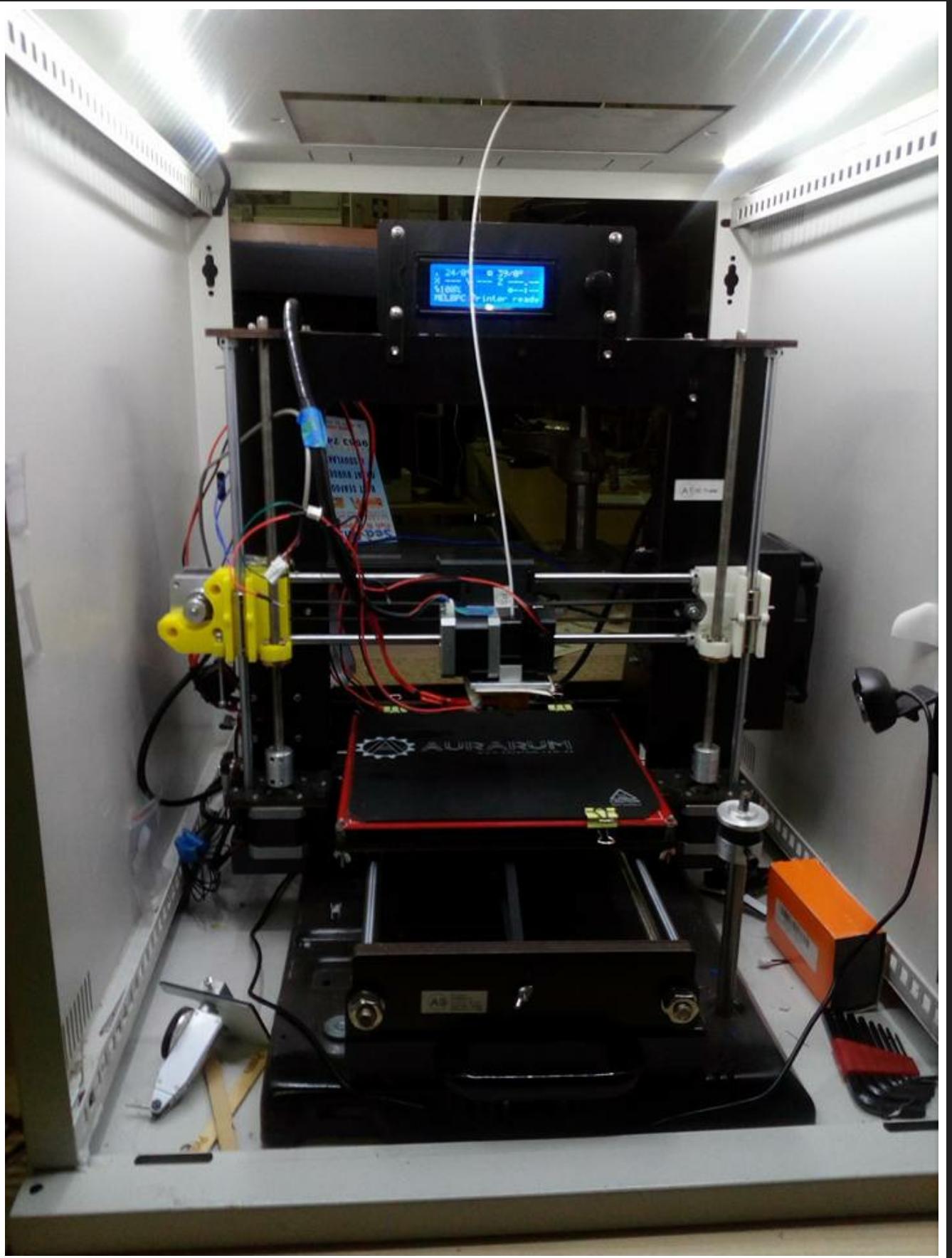
Website: <https://raspberrypisig.github.io>

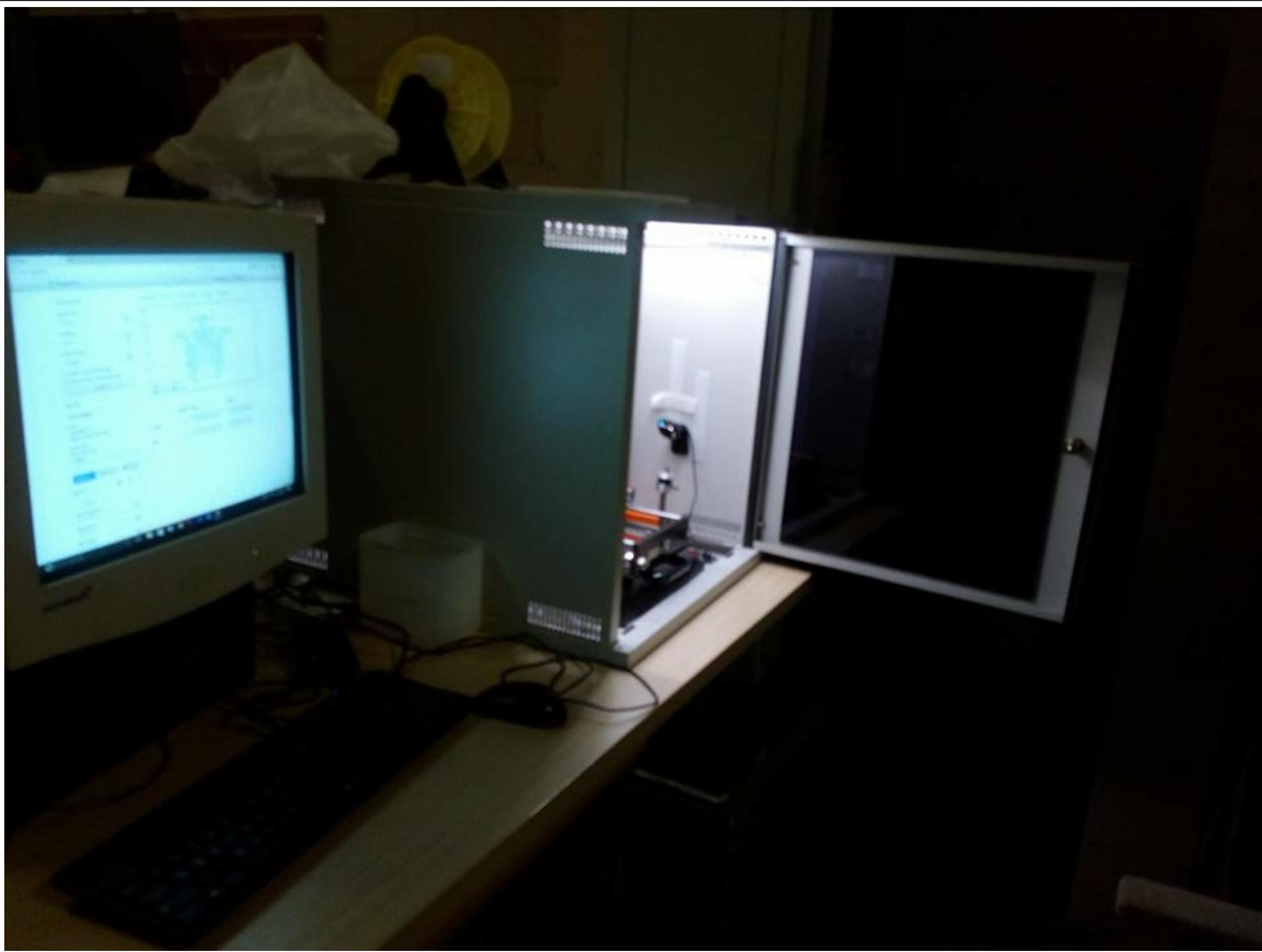
WHAT THE PRINTER KINDA LOOKS LIKE
UNMODIFIED...

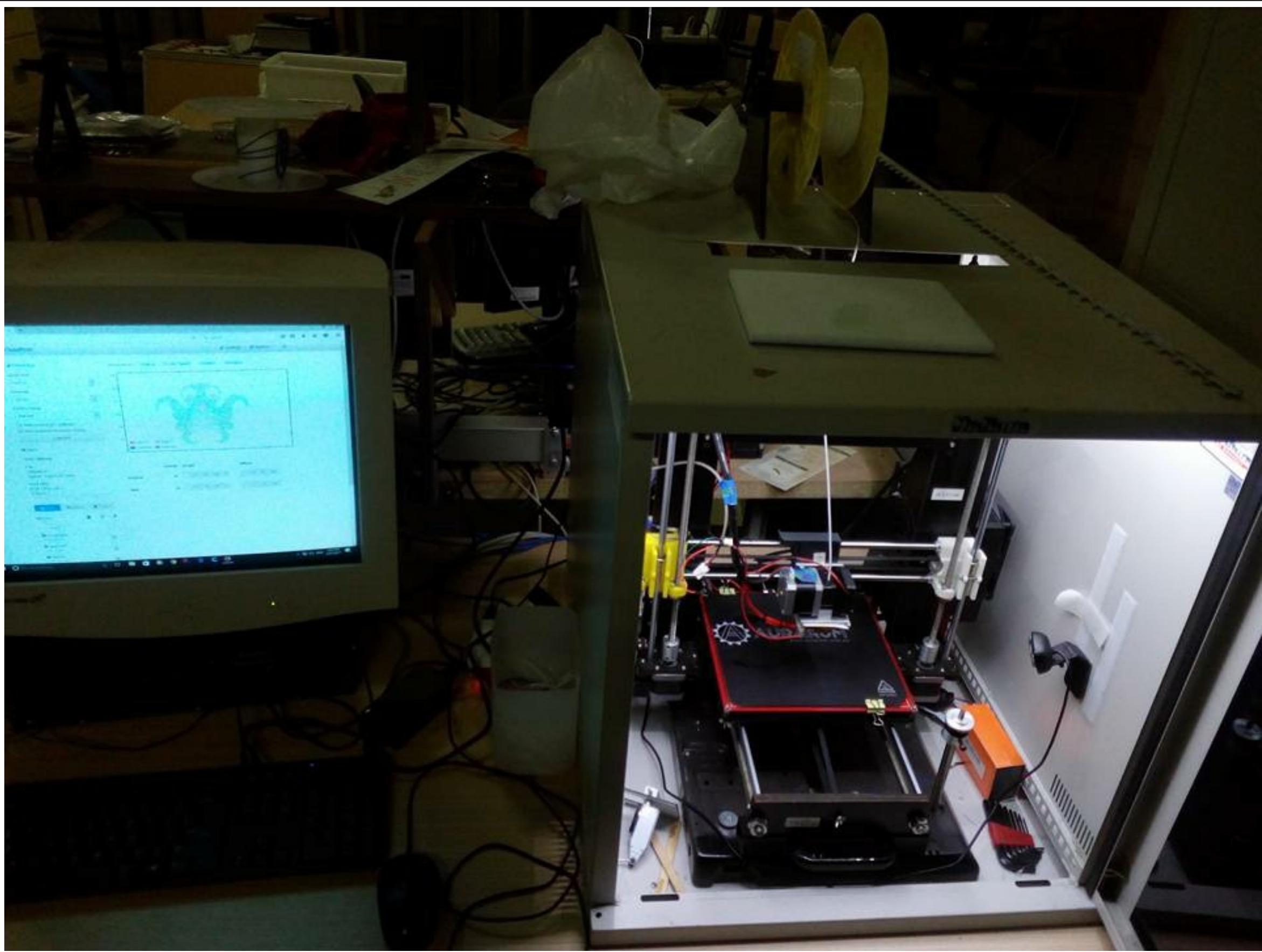


**WHAT THE MELBPC 3D PRINTER
ACTUALLY LOOKS LIKE...**



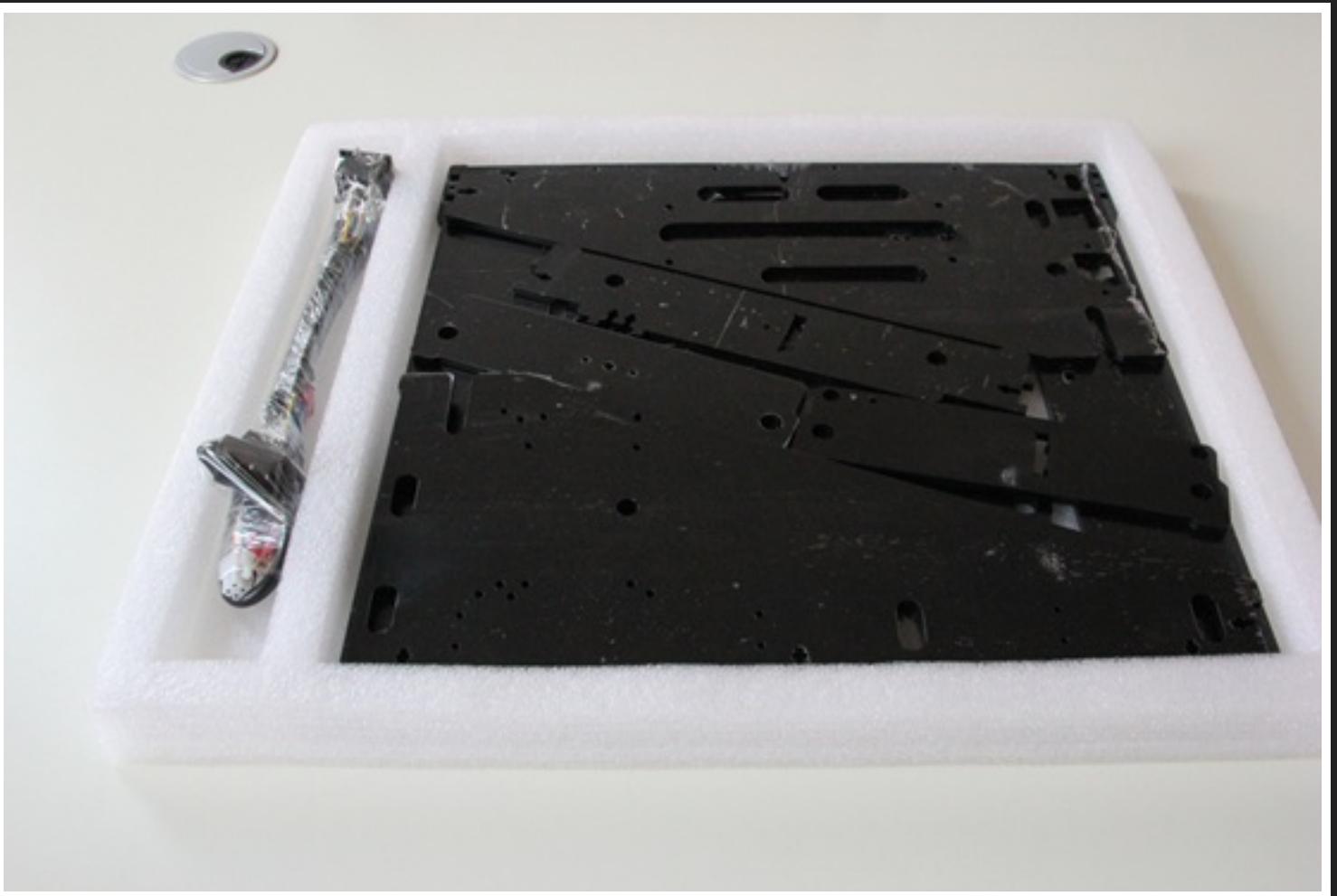


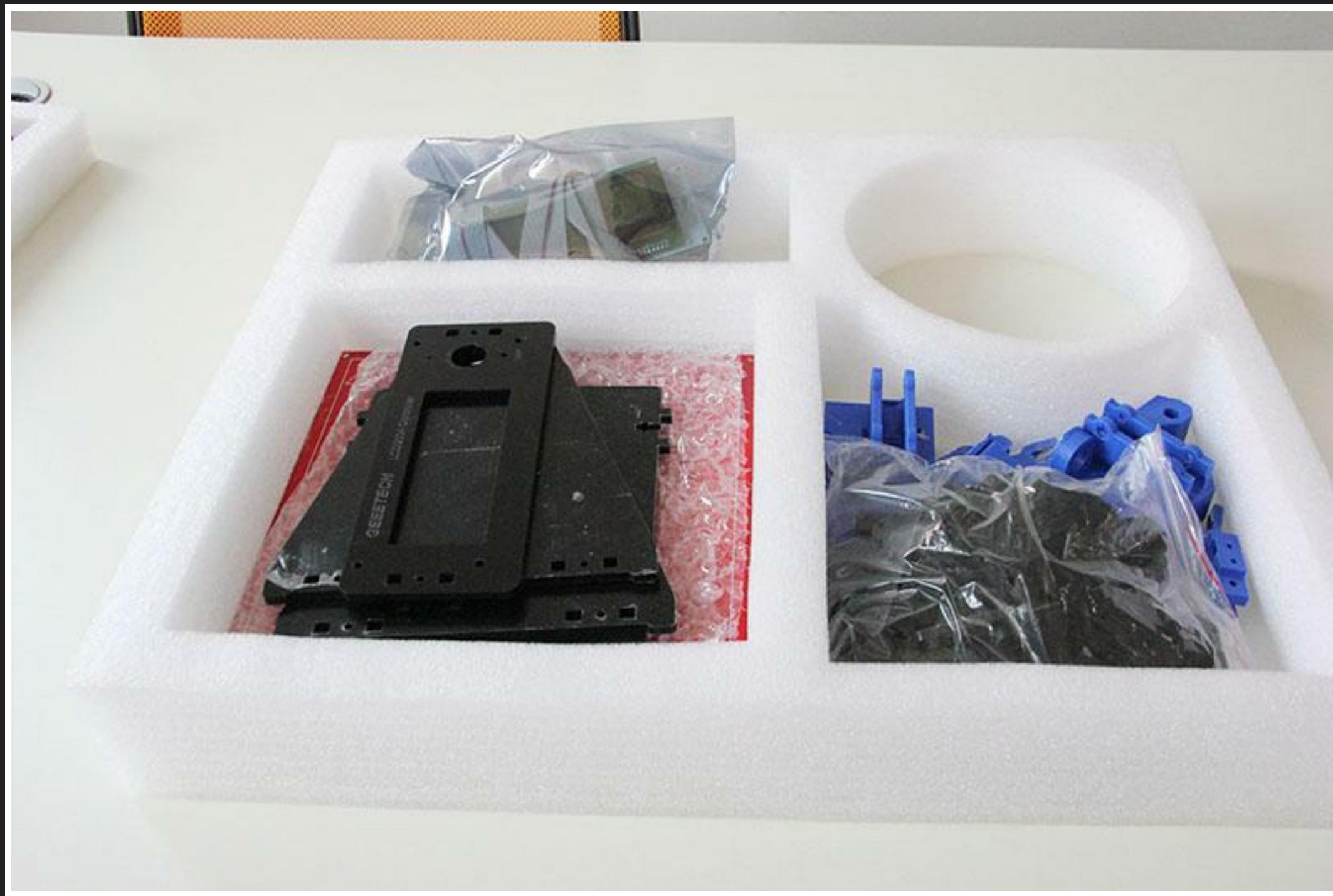




PRINTER CAME AS A KIT...

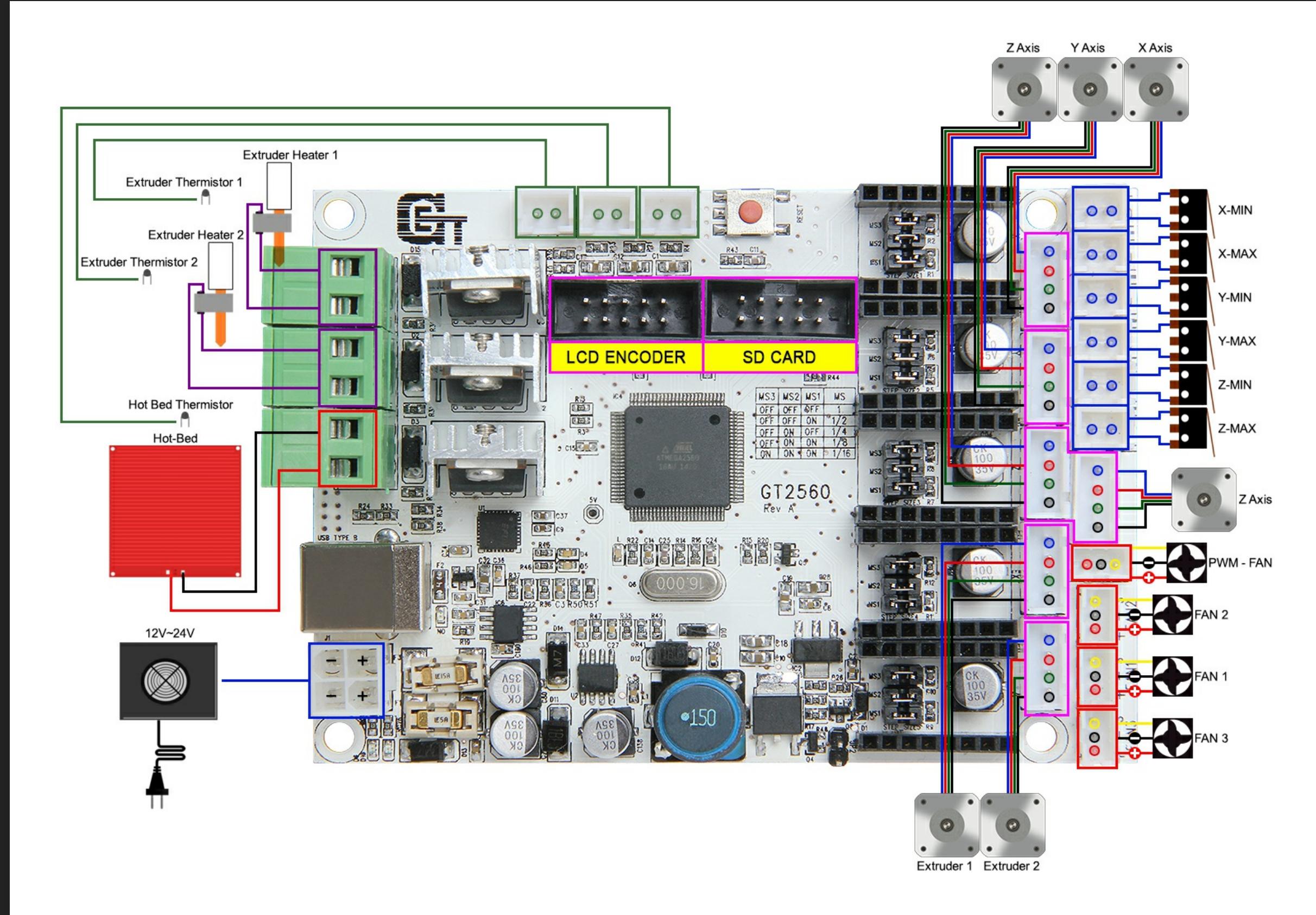




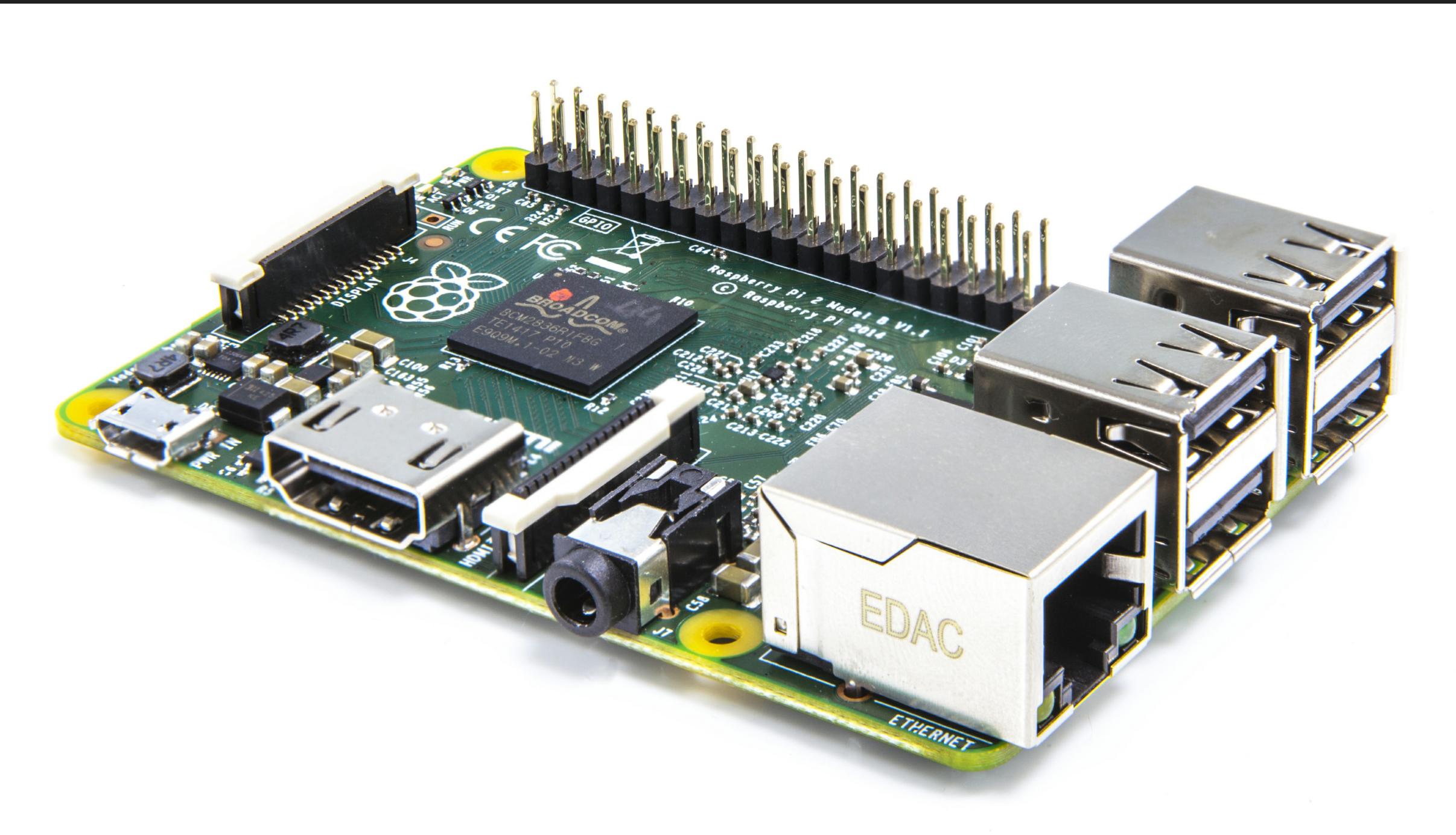




Control board (GT2560)...



RASPBERRY PI



Connection

State

Machine State: **Operational**

File:

Timelapse: -

Approx. Total Print Time: -

Print Time: -

Print Time Left: -

Printed: -

Print

Pause

Cancel

Files

Search...

01kBauble.1412.gco

Uploaded: a month ago

Size: 7.1MB



01kBauble.1506.gco

Uploaded: a month ago

Size: 7.6MB



01kBauble.gco

Uploaded: 2 months ago

Size: 7.9MB



01kBauble.stl

Uploaded: 2 months ago

Size: 5.8MB



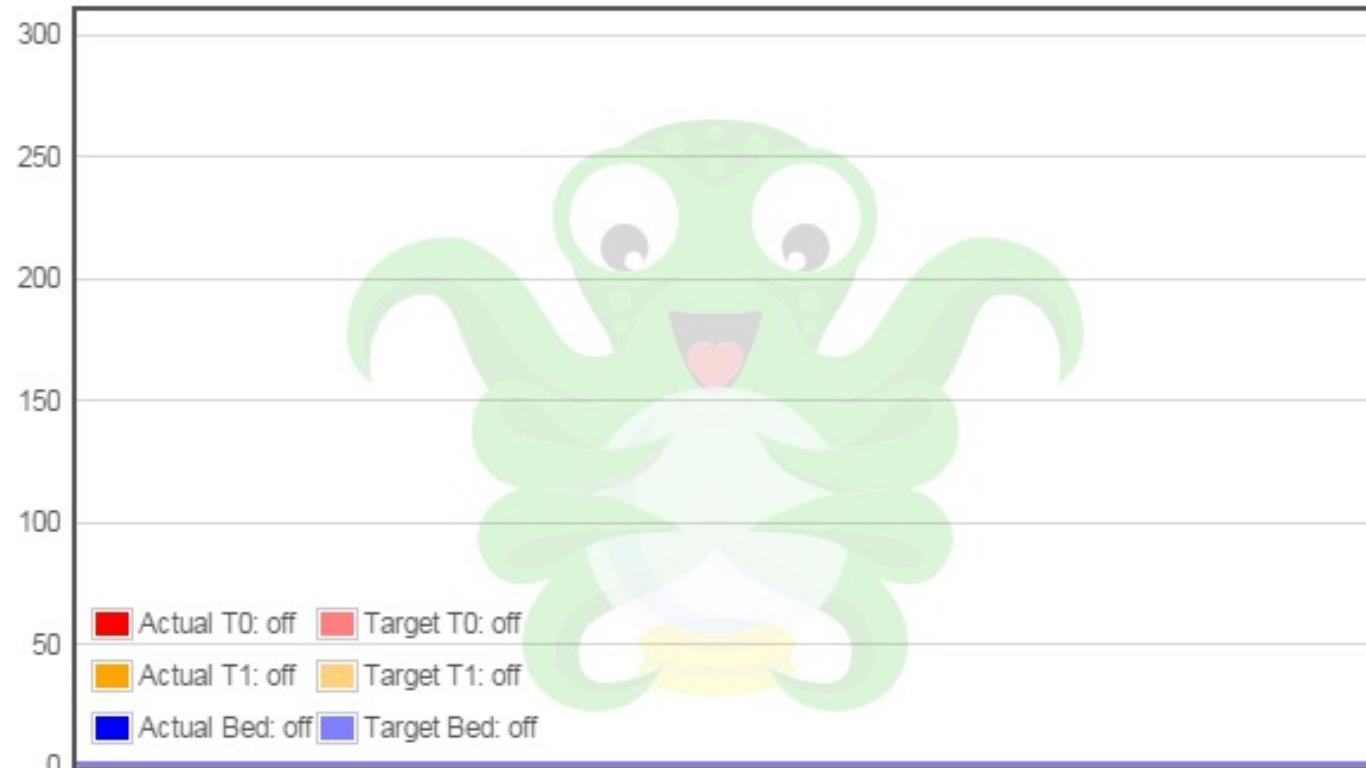
Temperature

Control

GCode Viewer

Terminal

Timelapse

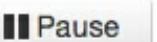
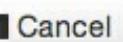


	Actual	Target	Offset
Tool 0	off	off °C Set ▾	0 °C Set
Tool 1	off	off °C Set ▾	0 °C Set
Bed	off	off °C Set ▾	0 °C Set

Connection

State

Machine State: Printing
File: M10_x_16_mm.gcode
Filament:
Estimated Print Time:
Height: **2.20 mm**
Print Time: **00:03:07**
Print Time Left: **00:39:30**
Printed: **25.6KB / 348.1KB**

 Print Pause Cancel

Files

Name	Size	Action
------	------	--------

M10_x_16_mm.g...	348.1KB	  
------------------	---------	---

Free:

 Upload Upload to SD

Hint: You can also drag and drop files on this page to upload them.

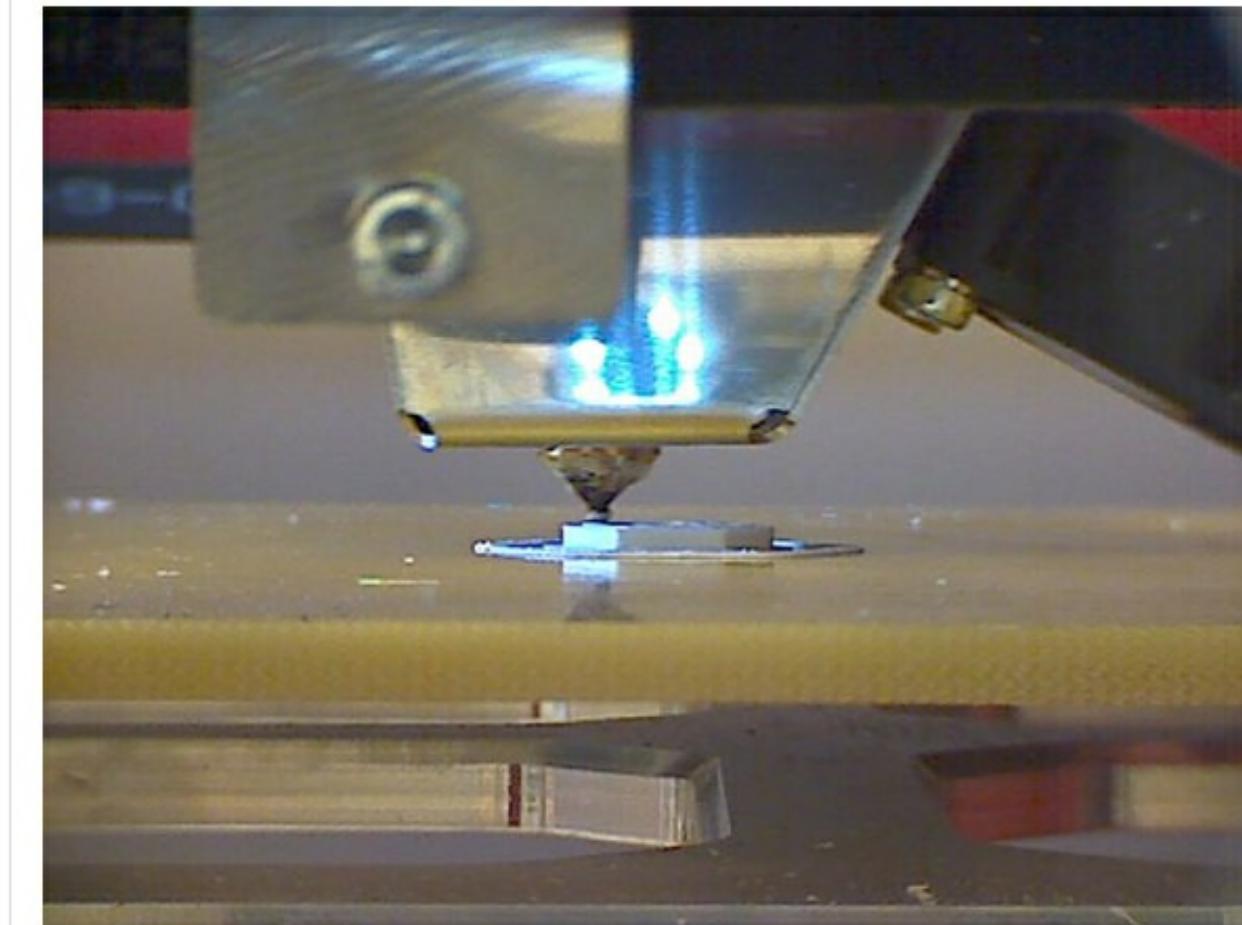
Temperature

Control

GCode Viewer

Terminal

Timelapse



X/Y

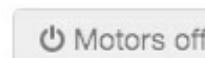
Z

E

General



5 mm

 Motors off

Extrude

Fans on



Retract

Fans off

0.1 1 10 100

OctoPrint

Einstellungen System foosel

Verbindung

Status

Druckerstatus: **Drucke**
Datei: **sharkz.gco**
Zeitraffer: -
Filament (Werkzeug 0): **2.08m / 5.00cm³**
Ungefähr Druckdauer: **00:32:56**
Druckdauer: **00:12:52**
Verbleibende Druckdauer: **28 Minuten**
Gedruckt: **318.1KB / 1.4MB**

Drucken Pause Abbruch

Dateien

Suchen...
Part_1_lg_g_watch_l_holder.gco
Hochgeladen: vor 4 Minuten
Größe: 206.0KB

Part_2_lg_g_watch_r_holder.gco
Hochgeladen: vor 4 Minuten
Größe: 242.9KB

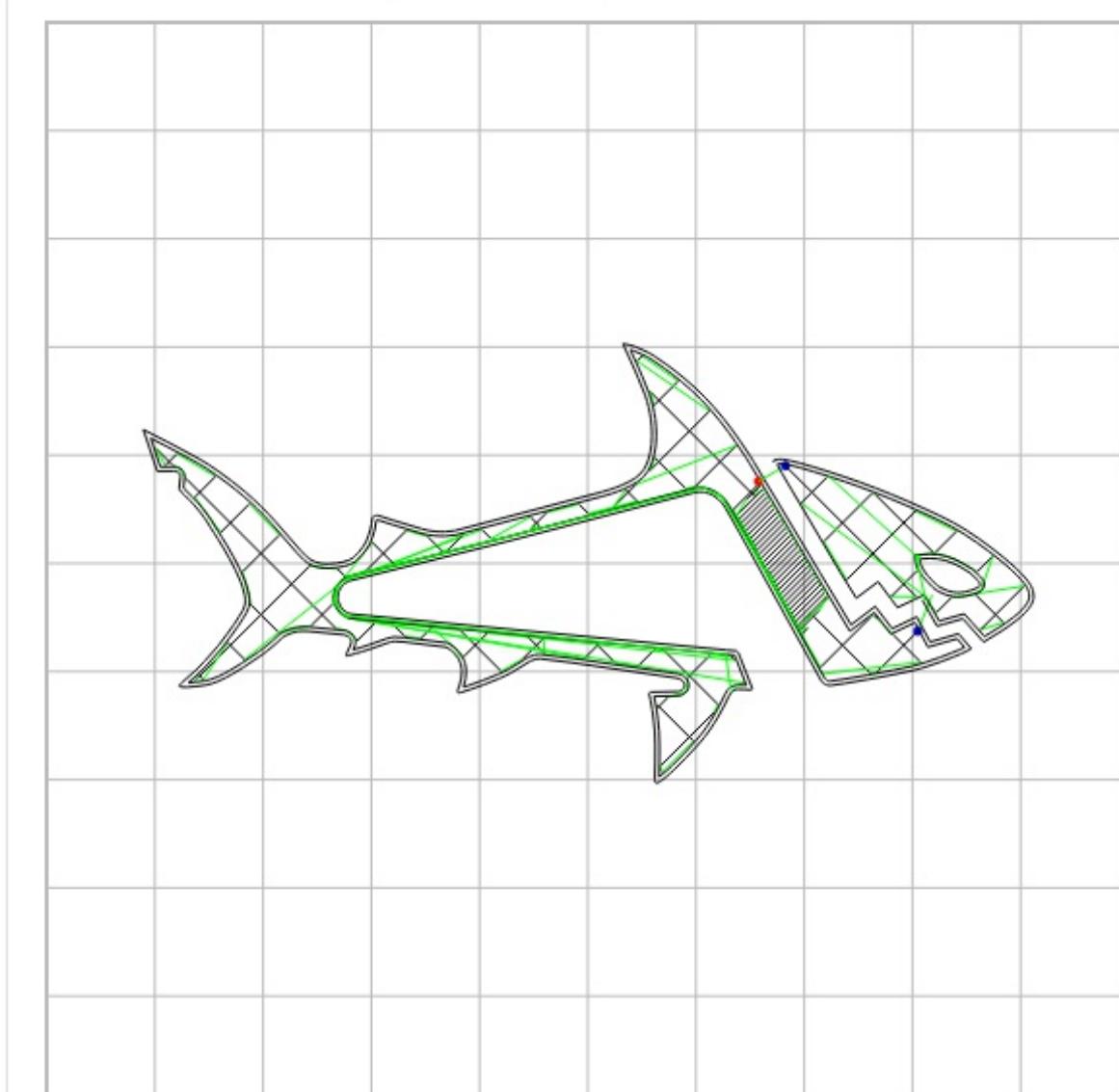
Part_2_lg_g_watch_r_holder.stl
Hochgeladen: vor 4 Minuten
Größe: 11.6KB

sharkz.gco
Hochgeladen: vor 6 Minuten
Größe: 1.4MB

sharkz.stl
Hochgeladen: vor 9 Minuten
Frei: 776.3MB

Upload Upload (SD)

Temperatur Steuerung GCode Viewer Terminal Zeitraffer



Analysiert

Modelinformationen

Modelgröße: 89.75mm × 47.48mm × 9.00mm
Geschätzte Schichthöhe: 0.20mm
Schichtanzahl: 46 gedruckt, 50 besucht

Rendereroptionen

Job mit Fortschritt synchronisieren

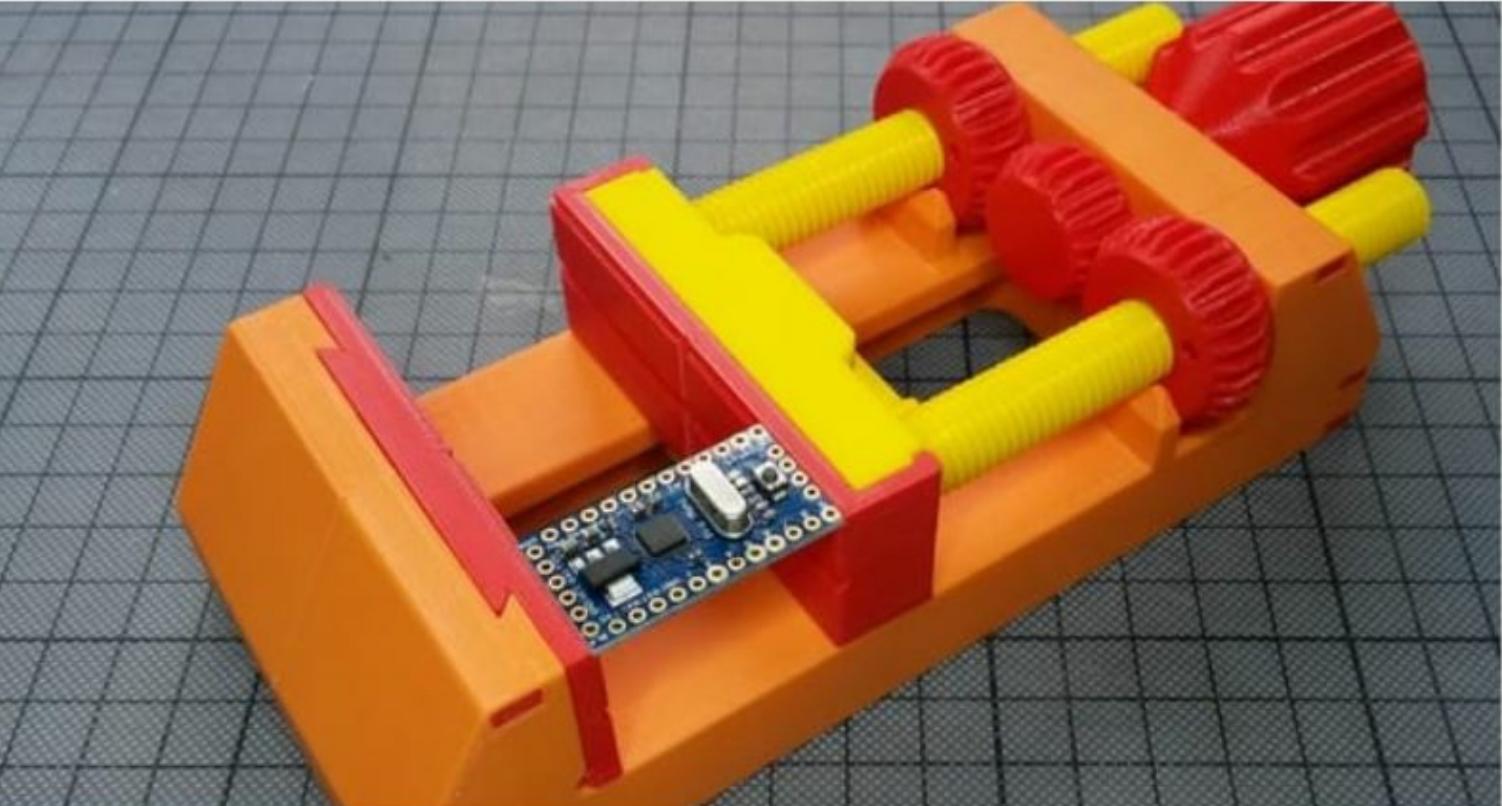
STEPS TO PRINT 3D OBJECT

- Get STL file of your 3D object
- Octoprint does the rest

Thingiverse DASHBOARD EXPLORE EDUCATION CREATE

Enter a search term

You



Thingiverse Featured

@TheGoofy calls it Yet ANOTHER Machine Vise, but it's far more interesting than that. This is a useful design and a great project. Be sure to watch the accompanying video. You just might learn something.

Learn More

Makes

Users

Collections

Groups

Apps

FOR EDUCATION

REFINE YOUR SEARCH

License Type

Any

Customizable

Show Customized Creations

Order A Print

Toilet Paper Holder | Toothbrush Holder

743 807 17

Bathroom Wine Glass Holder by Stu Dkn May 29, 2014



155 189 11

Water Divertor for bathroom... by Digitalpaul Aug 15, 2015



171 228 2

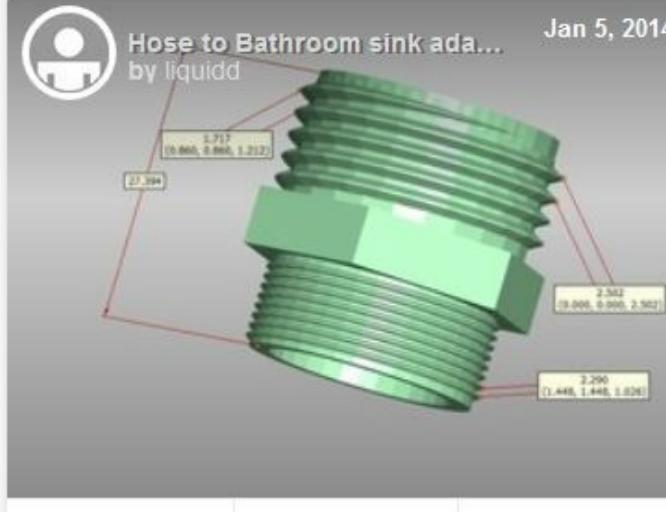
Top

robo Bathroom Sign by ROBO3D Jun 16, 2014



117 140 5

Hose to Bathroom sink ada... by liquidd Jan 5, 2014





Bathroom Wine Glass Holder

by Stu_Dkn, published May 29, 2014



DOWNLOAD ALL FILES



Like

155



Collect

189



Comment

11



I Made One

4



Watch

1



Remix It

2



Share

Thing Apps Enabled



Order This Printed



View All Apps

			11	4	189	2
Thing Details	Thing Files	Apps	Comments	Made	Collections	Remixes

Contents

Summary
Instructions

 **Tip Designer**

 **Report Thing**

Tags

Add Tags

bathroom sucker suction_cup Wine
wineglass

License



Bathroom Wine Glass Holder by Stu_Dkn is licensed under the [Creative Commons - Attribution](#) license.

Summary

A wine glass holder for those moments in life when you require alcohol in the bath!

Sorry about the picture I only had pop left ;-)

Suckers came from ebay just search for "Suction Cup 40mm Round Button"

For the best effect please follow the instructions implicitly!

Instructions

- 1) Fetch glass
- 2) Add wine to glass
- 3) Print it
- 4) Add suckers, mine came from ebay just search for "Suction Cup 40mm Round Button"
- 5) Fix holder to tiles
- 6) Refill glass with wine
- 7) Fill Bath!
- 8) Refill glass with wine
- 9) Insert glass into holder
- 10) Enter bath
- 11) Refill glass as required
- 12) Enjoy



 View All Apps

 Thing Details  Thing Files  Apps 11 Comments 4 Made 189 Collections 2 Remixes

File Name	Downloads	Size
 Wine_Glass_Holder.stl Last updated: 05-29-14	913	74kb
 Wine_Glass_Holder.dxf Last updated: 05-29-14	573	532kb



Bathroom Wine Glass Holder by Stu_Dkn is licensed under the Creative Commons - Attribution license.

By downloading this thing, you agree to abide by the license: Creative Commons - Attribution

 DOWNLOAD ALL FILES

Connection

State

Machine State: Printing
File: M10_x_16_mm.gcode
Filament:
Estimated Print Time:
Height: **2.20 mm**
Print Time: **00:03:07**
Print Time Left: **00:39:30**
Printed: **25.6KB / 348.1KB**

Print

Pause

Cancel

Files

Name	Size	Action
------	------	--------

M10_x_16_mm.g...	348.1KB	
------------------	---------	--

Free:

Upload

Upload to SD

Hint: You can also drag and drop files on this page to upload them.

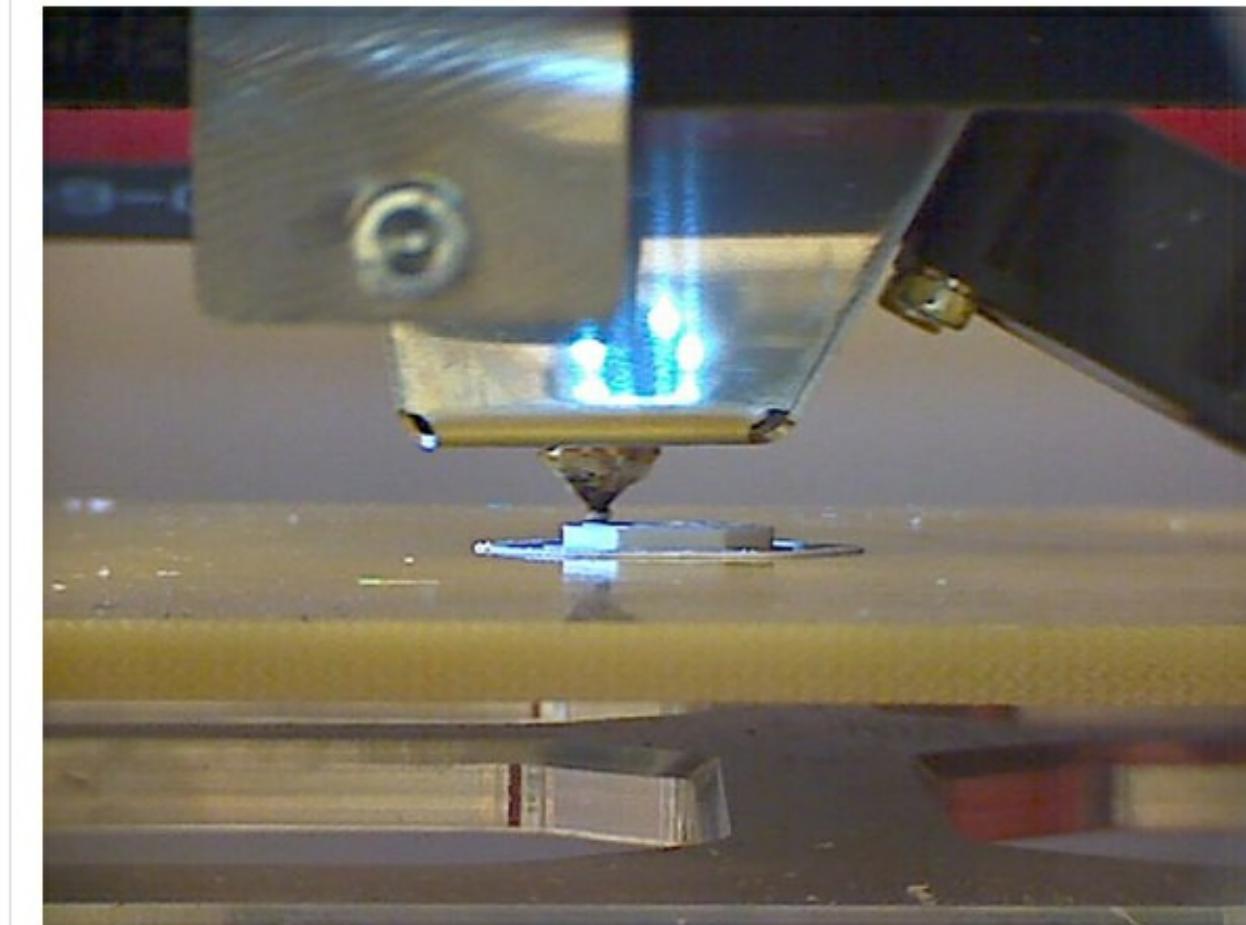
Temperature

Control

GCode Viewer

Terminal

Timelapse



X/Y

Z

E

General

5 mm

Extrude

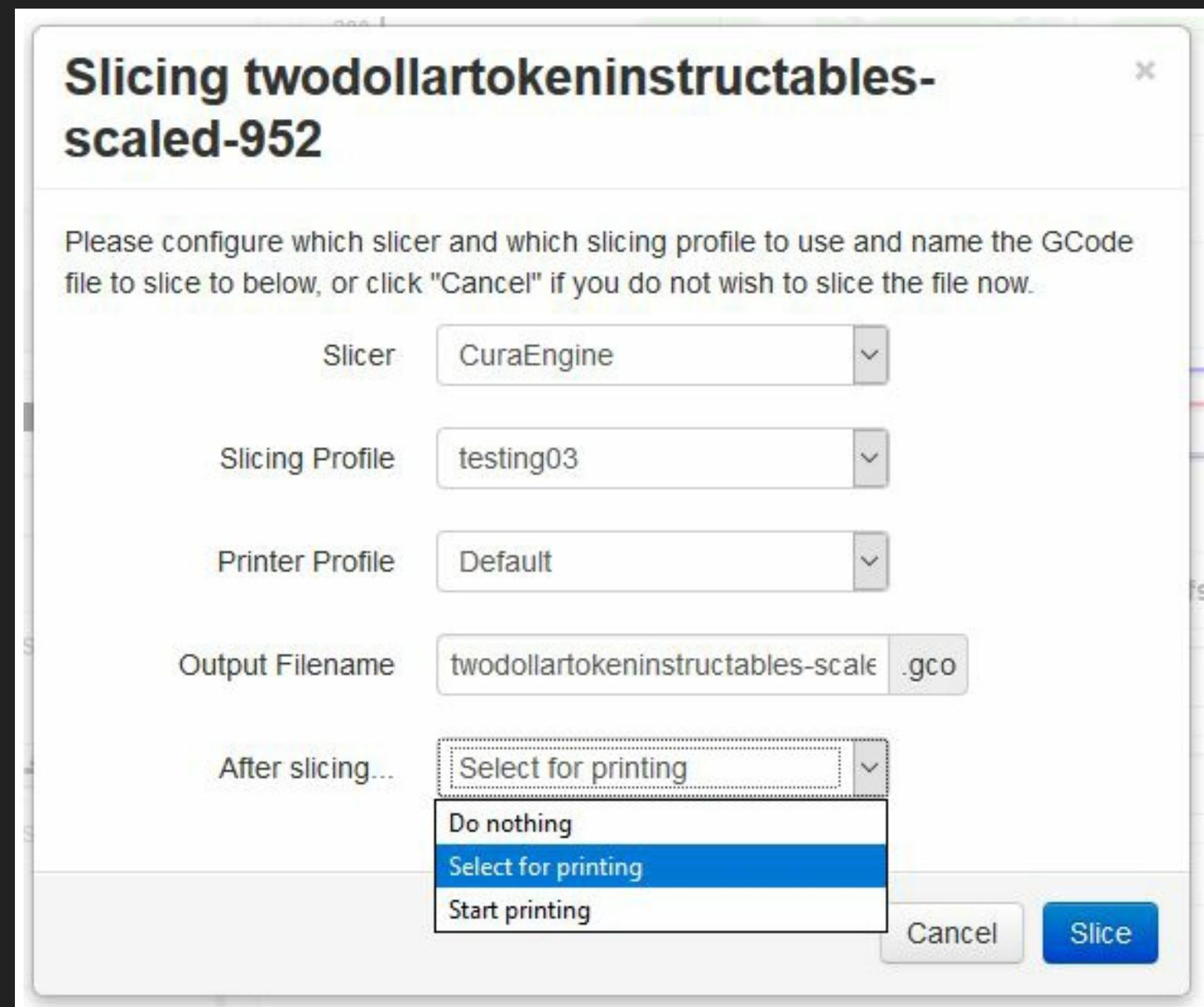
Retract

Motors off

Fans on

Fans off

0.1 1 10 100



OctoPrint Settings

PRINTER

[Serial Connection](#)
[Printer Profiles](#)
[Temperatures](#)
[Terminal Filters](#)
[GCODE Scripts](#)

FEATURES

[Features](#)
[Webcam & Timelapse](#)
[GCODE Visualizer](#)
[API](#)
[OCTOPRINT](#)
[Server](#)
[Folders](#)
[Appearance](#)
[Logs](#)
[Plugin Manager](#)
[Software Update](#)
[Announcements](#)

PLUGINS

[CuraEngine \(<= 15.04\)](#)

General

Specify the path to the CuraEngine binary. Note that only **versions up to and including 15.04** are supported. CuraEngine version 15.06 or newer is **not** compatible with this plugin.

Path to CuraEngine [Test](#)

Log the output of CuraEngine to plugin_cura_engine.log

Profiles

Sort by: [Identifier \(ascending\)](#) | [Name \(ascending\)](#)

Identifier	Name	Actions
infill50	infill50	
supporteverywhere-100infill	supporteverywhere-100infill	
★ testing03	testing03	
testing100percentinfill	testing100percentinfill	

« 1 »

[Import Profile...](#)

For more information on configuration and usage please [see the Plugin's homepage](#).

DEMO

MODIFICATIONS

- Enclosure & LED Lighting
- Computer power supply
- Metal base for increased rigidity

PROBLEMS

- Print not sticking to bed
- Print warping or stringy
- Filament jams

SOLUTIONS

- Level Bed (use dial indicator)
- Buildtak/ PEI sheet (eg.

<http://www.aurarum.com.au/accessories/334-flasforge-build-surface-similar-to-buildtak.html>)

REFERENCES

Technical documentation:

<https://github.com/microcontrollersig/melbpc3DPrinter>

Shopping Trolley Token:

<http://www.instructables.com/id/Removable-shopping-trolley-tokens>