OctoPrint in a Nutshell

Gina Häußge // @foosel

Im Prinzip das...
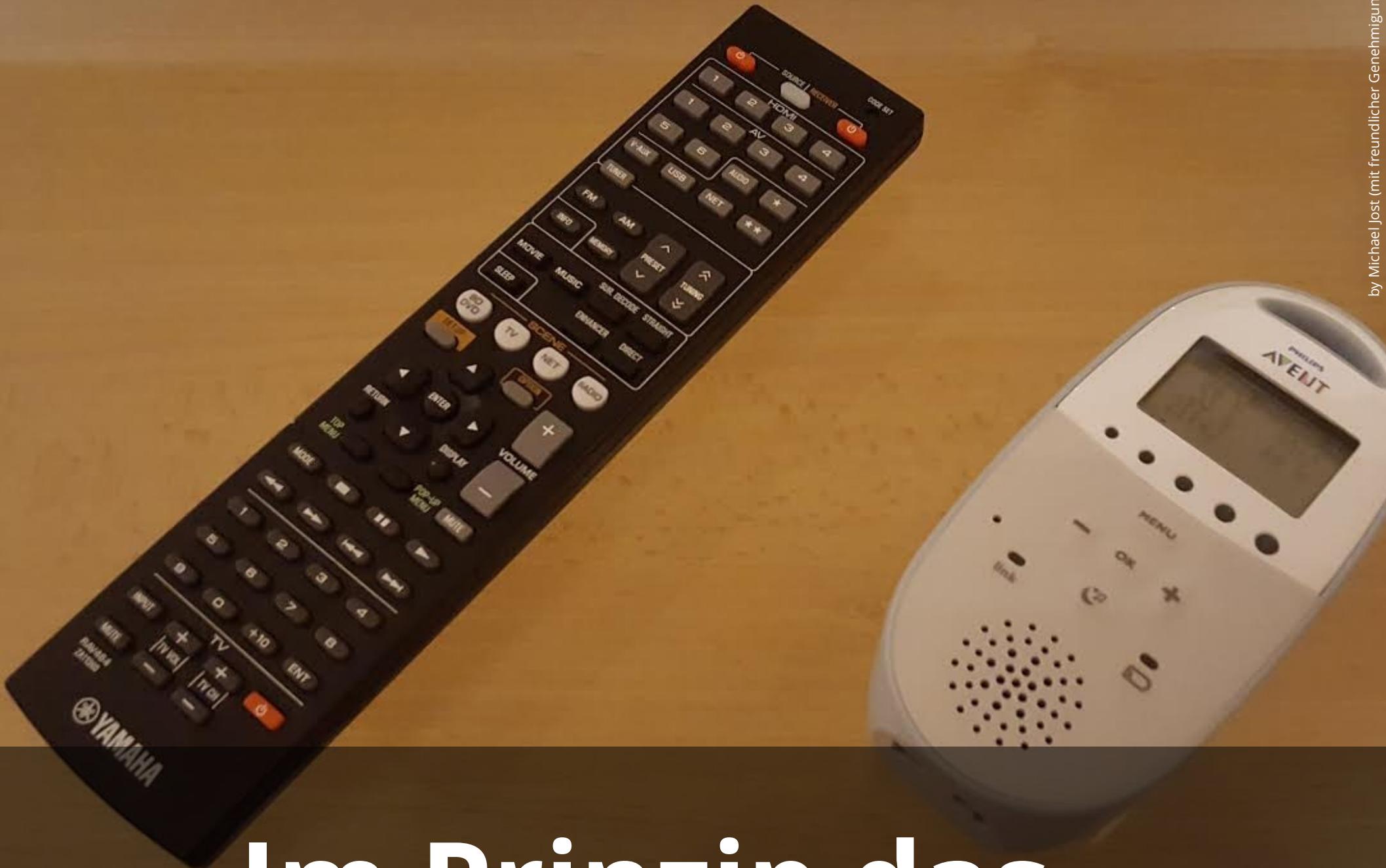
3D Druck = laut & stinkt

Schmelzendes Plastik

Dauert lange

Ergebnis? Variabel...

**Überwachen!**

OctoPrint

Raspberry Pi + Webcam
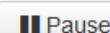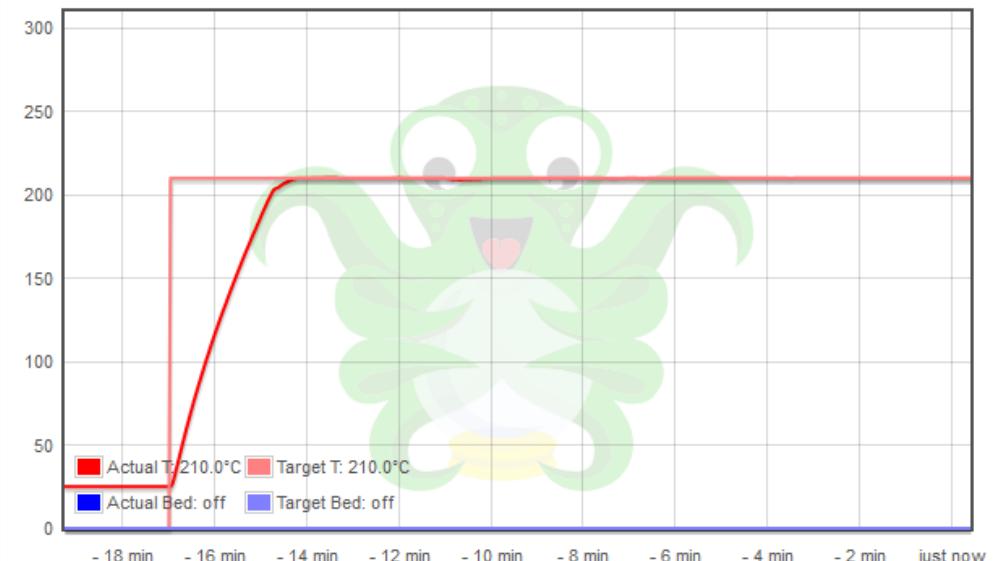
Browser als Frontend

Jederzeit von überall

0:13 / 0:16
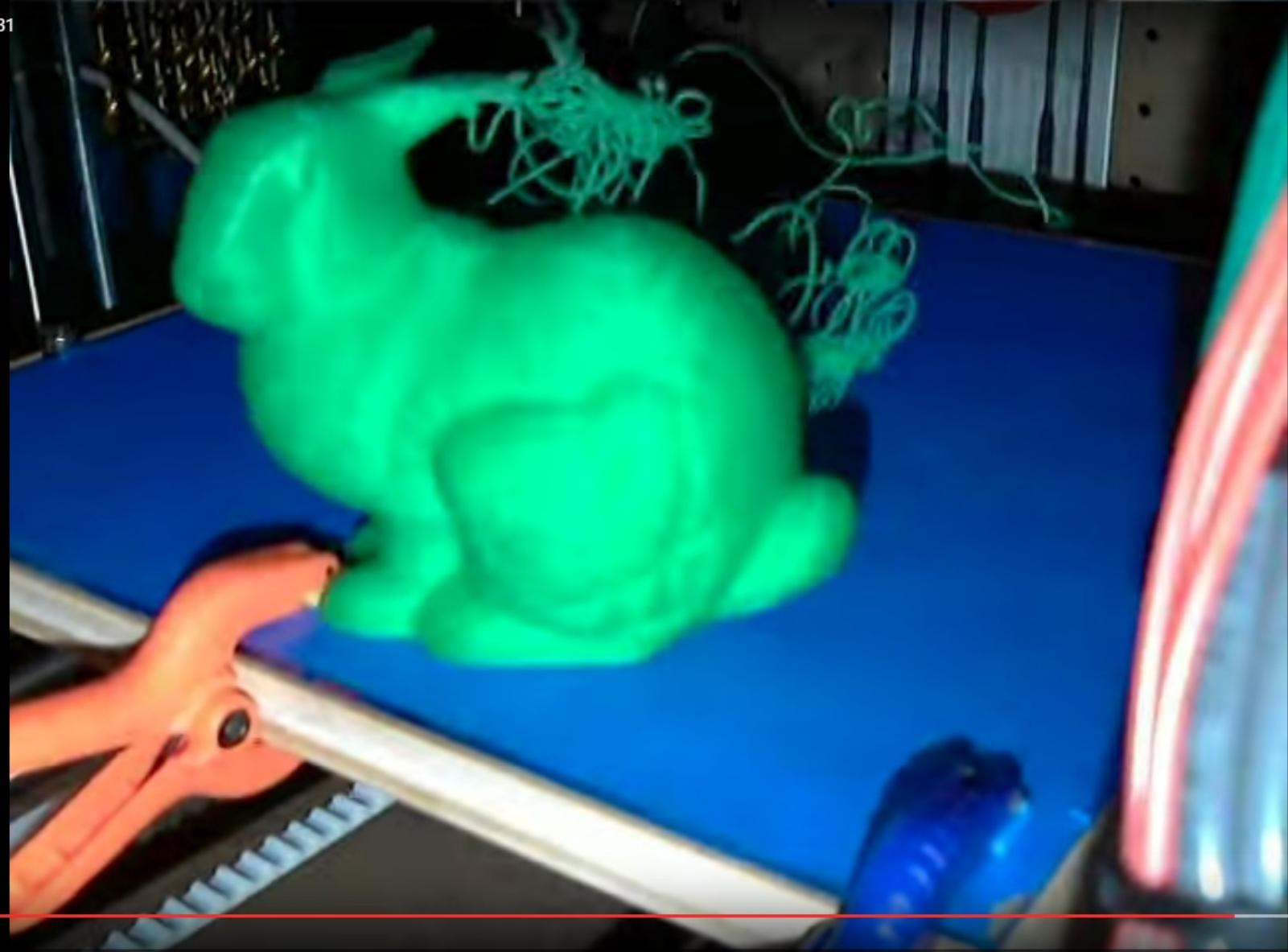
Zeitraffervideos

Python + JavaScript

OctoPrint

master

File operations

Contents

- File operations
  - Retrieve all files
  - Retrieve files from specific location
  - Upload file
  - Retrieve a specific file's information
  - Issue a file command
  - Delete file
  - Datamodel
    - Retrieve response
    - Upload response

Retrieve all files

`GET /api/files`

Retrieve information regarding all files currently available and regarding the disk space still available locally in the system.

Returns a Retrieve response.

Example:

```
GET /api/files HTTP/1.1
Host: example.com
X-Api-Key: abcdef...
```

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "files": [
    {
      "name": "whistle_v2.gcode",
      "size": 1851,
      "date": 1378847754,
      "origin": "local",
      "refs": {
        "resource": "http://example.com/api/files/local/whistle_v2.gcode",
        "download": "http://example.com/downloads/files/local/whistle_v2.gcode"
      },
      "gcodeAnalysis": {
```

REST API

OctoPrint Plugin Repository

✱ Most recently added plugins

• EEPROM Marlin Editor · 30 Aug 2015 · · · 🔊 RSS Feed

Makes it possible to change the EEPROM values of Marlin Firmware through OctoPrint

`marlin` `helper`

• DisplayProgress · 03 Aug 2015

Displays the print progress on the printer's display

`printer` `display` `lcd` `progress`

• EEPROM Repetier Editor · 28 Jul 2015

Makes it possible to change the EEPROM values of Repetier Firmware through OctoPrint

`repetier` `helper`

• Pushbullet · 23 Jul 2015

Pushes notifications about finished print jobs via Pushbullet

`notification`

• Yamlpatcher · 07 Jul 2015

Allows patching up config.yaml through the web interface

`admin` `config`

• StatusLine · 04 Jul 2015

Display M117 (Display Message) in the Sidebar

`ui`

• Autoselect · 27 Jun 2015

🔍 Search

Enter search term & hit enter...

💡 Help

You are a user of OctoPrint and want to to know **how to install** any of the plugins listed here? Take a look at this guide.

You are a plugin author and want to **register your new plugin** to be listed here? Take a look at this guide.

📊 Stats

There are currently 22 plugins listed in this repository.

Plugins

14:57
Tuesday 8 September

sharkz.jpg 14:55
sharkz.gco finished printing in 00:33:46
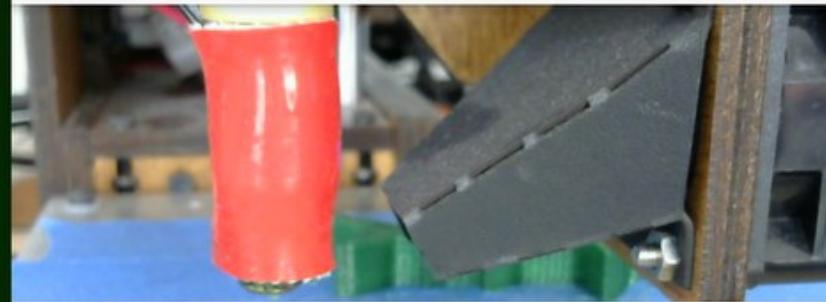
SHARE

Battery Mix 14:36
97% : In use [32.4°C]

SMS sync 14:55
Learn more about this notification

12° Partly Cloudy 03:08
5 cards

Twilight 30-08-2015
Running, touch to pause

Social   Tools

Push Notifications

OCTOWATCH
Gullickson Laboratories

OCTOCONTROL – CONTROL YOUR 3D PRINTER WITH YOUR WATCH
quillford

+ iOS ❤ 29 WATCHAPP

+ iOS ❤ 7 WATCHAPP

time remaining:
11:03
opendive3.gcode...
Printing

OctoControl
Choose a function
X axis
Jog the X axis
Y axis
Jog the Y axis
Z axis

Home all
Home all axes (XYZ)
Shortcuts
List of quick commands
Help
List of commands

X Axis
Increment:
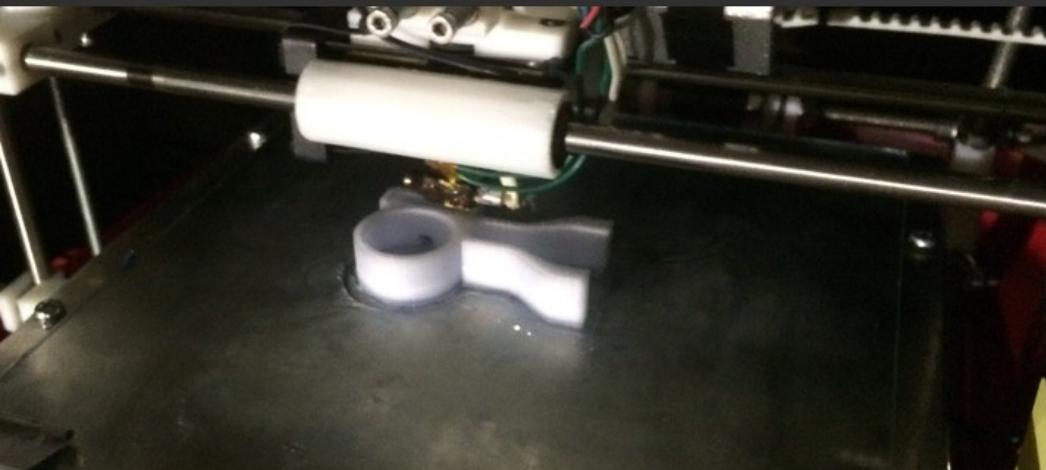
DESCRIPTION

Monitor and control any Octoprint-enabled 3D printer using your Pebble smartwatch.

DEVELOPER	Gullickson Laboratories
CATEGORY	Remotes
UPDATED	Dec 18, 2014
VERSION	2.0

DESCRIPTION

OctoControl allows you to use your watch to control your 3D printer. You can do things such as jogging, homing, controlling fans, and turning the motors off. Note: This requires that you have already setup the OctoPrint host software.

DEVELOPER	quillford
CATEGORY	Remotes
UPDATED	Mar 27, 2015
VERSION	

GET PEBBLE SMART WATCH

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BUY NOW FOR ONLY $99

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Pebble Apps
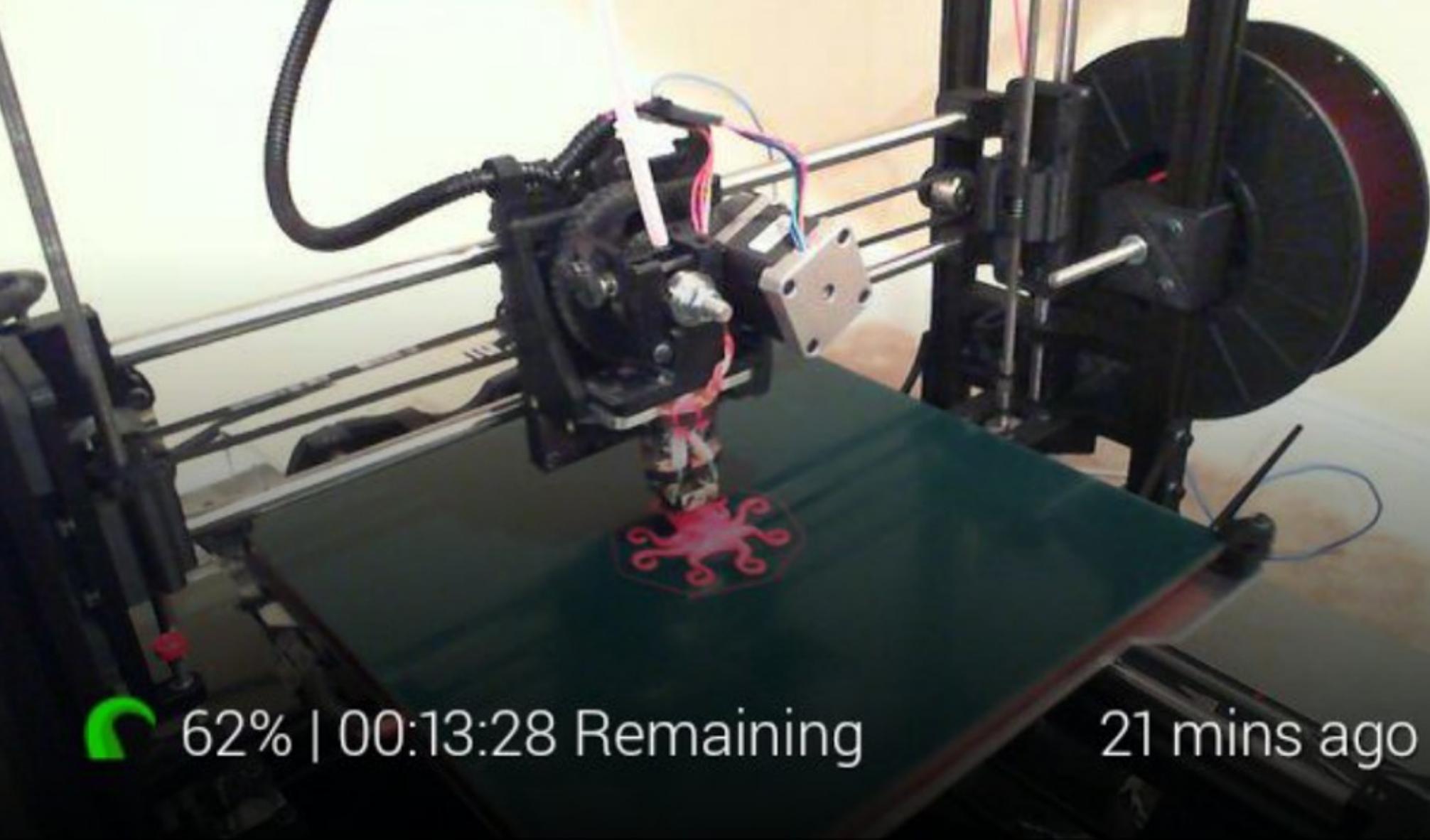
62% | 00:13:28 Remaining   21 mins ago

Google Glass

Alternative UI Konzepte
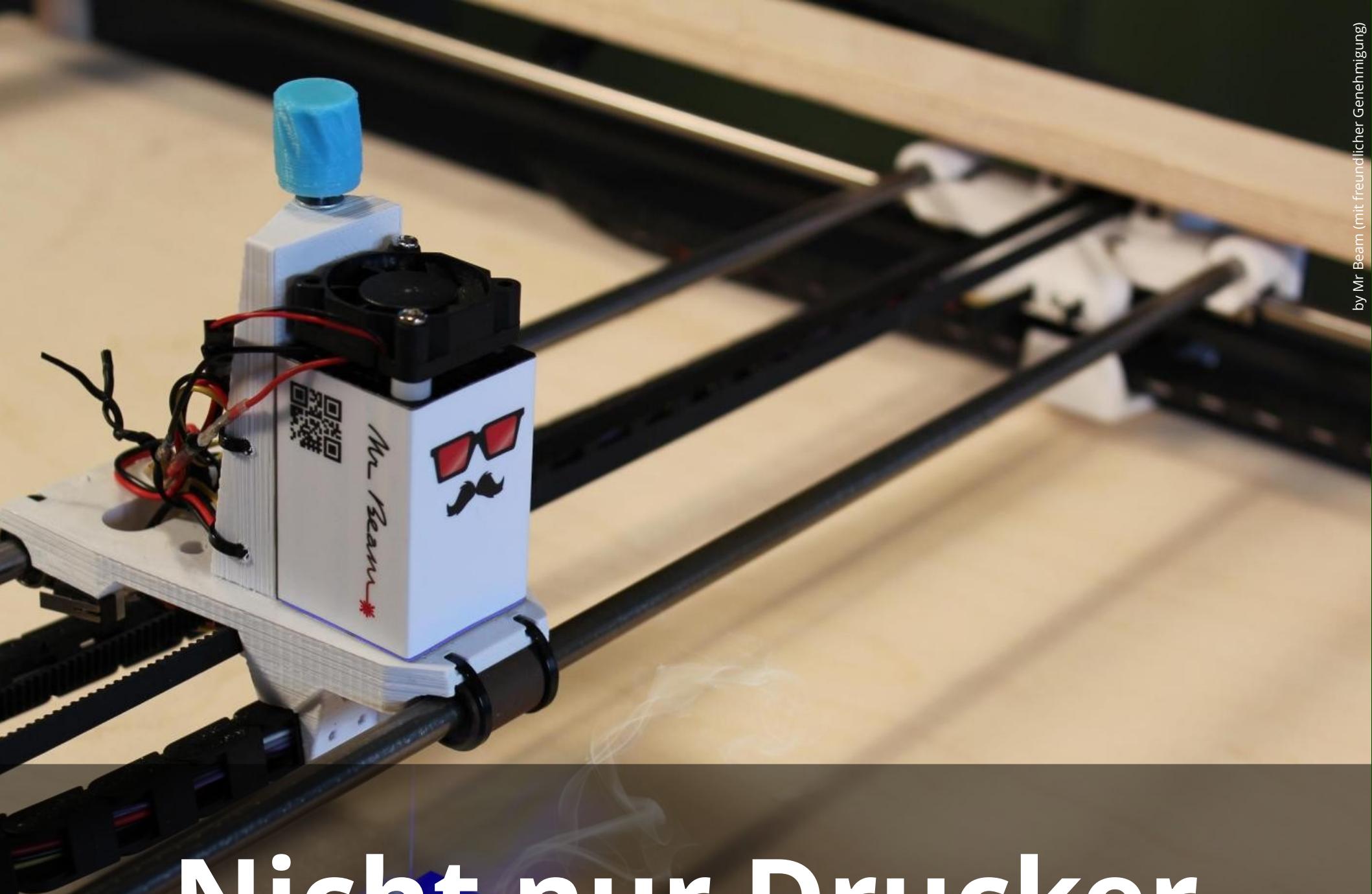
Nicht nur Drucker

OctoPrint

Print anything from anywhere.

Created by Gina Häußge & Sponsored by BQ

◯ Star   ◯ Fork 452   G+1 3.8k   ✈ Follow 770 followers   ✈ Tweet 98

The snappy web interface for your 3D printer

📶 Make your printer wireless

Connect your printer to a small embedded and WiFi enabled device such as the popular Raspberry Pi, install OctoPrint on it and you have an instant wireless printer.

⚙ Control your printer

Start, pause and stop print jobs, remotely move the print head along all axes, extrude, retract or just define your own custom controls.

👁 Monitor your prints

Get constant feedback regarding the current progress of your print job, your printer's extrusion and bed temperature. Watch your print live via the embedded webcam feed or create a timelapse movie.

🔌 Free as in beer and speech

OctoPrint is free and open source software released under the Affero General Public License (AGPL).

🖼 Visualize your gcode

OctoPrint incorporates the awesome gCodeVisualizer by Alexey Ustyantsev which allows you to visualize your gcode files before and even during printjobs.

💡 Highly compatible

OctoPrint has been proven to work with many different printer electronics and firmwares. Give it a try!

... and more to come!

⬇ Download

http://octoprint.org

About

OctoPrint is a so called host software for 3D printers that controls your 3D printer and sends it the actual commands to do its job. Other