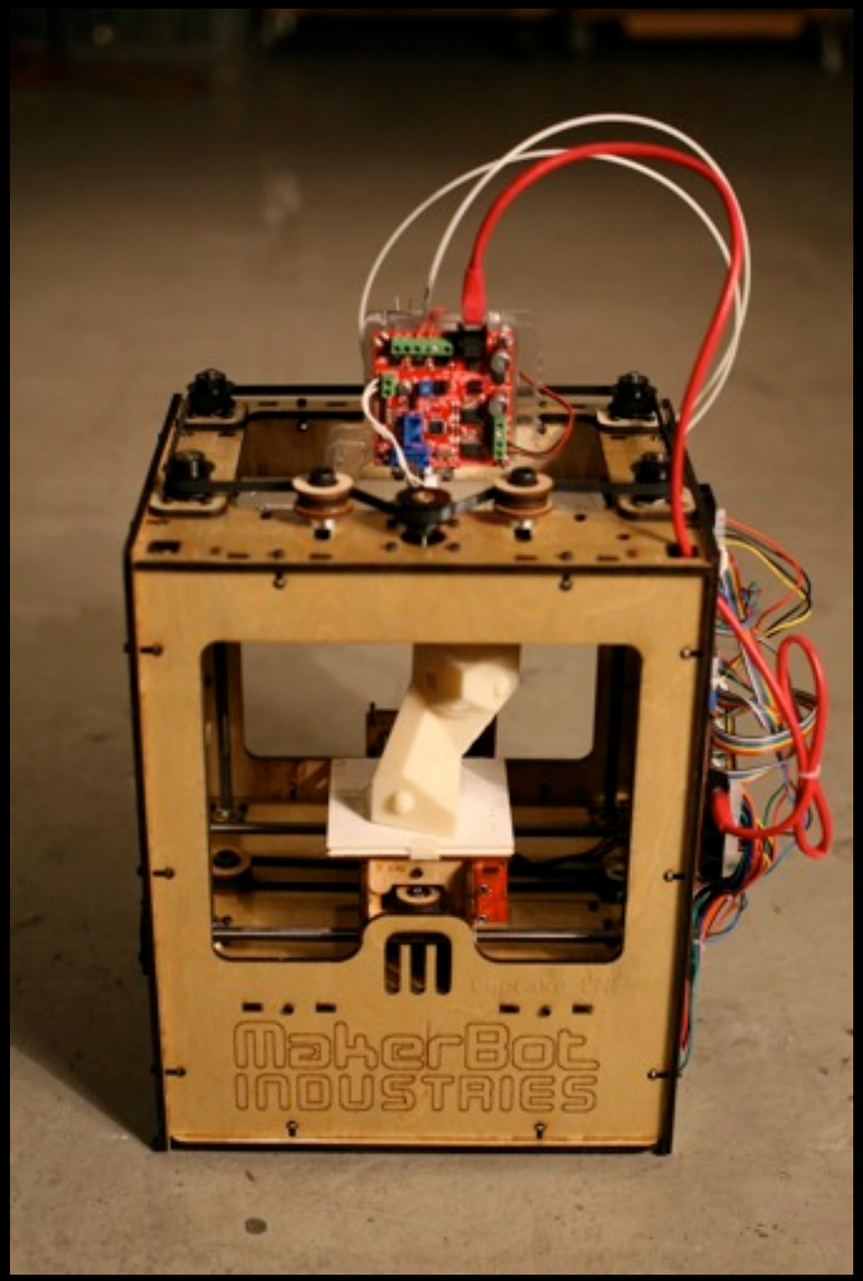

The Robot That Sharing Built

Bre Pettis
@bre @makerbot

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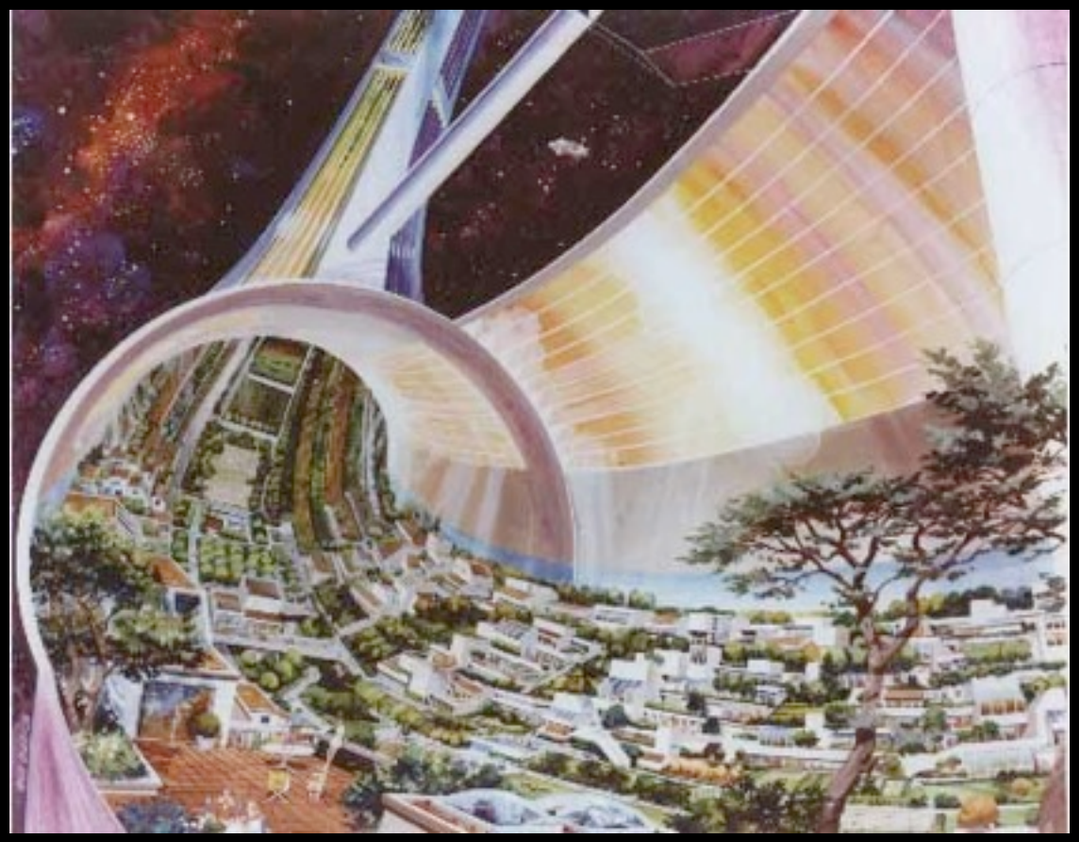
The Future



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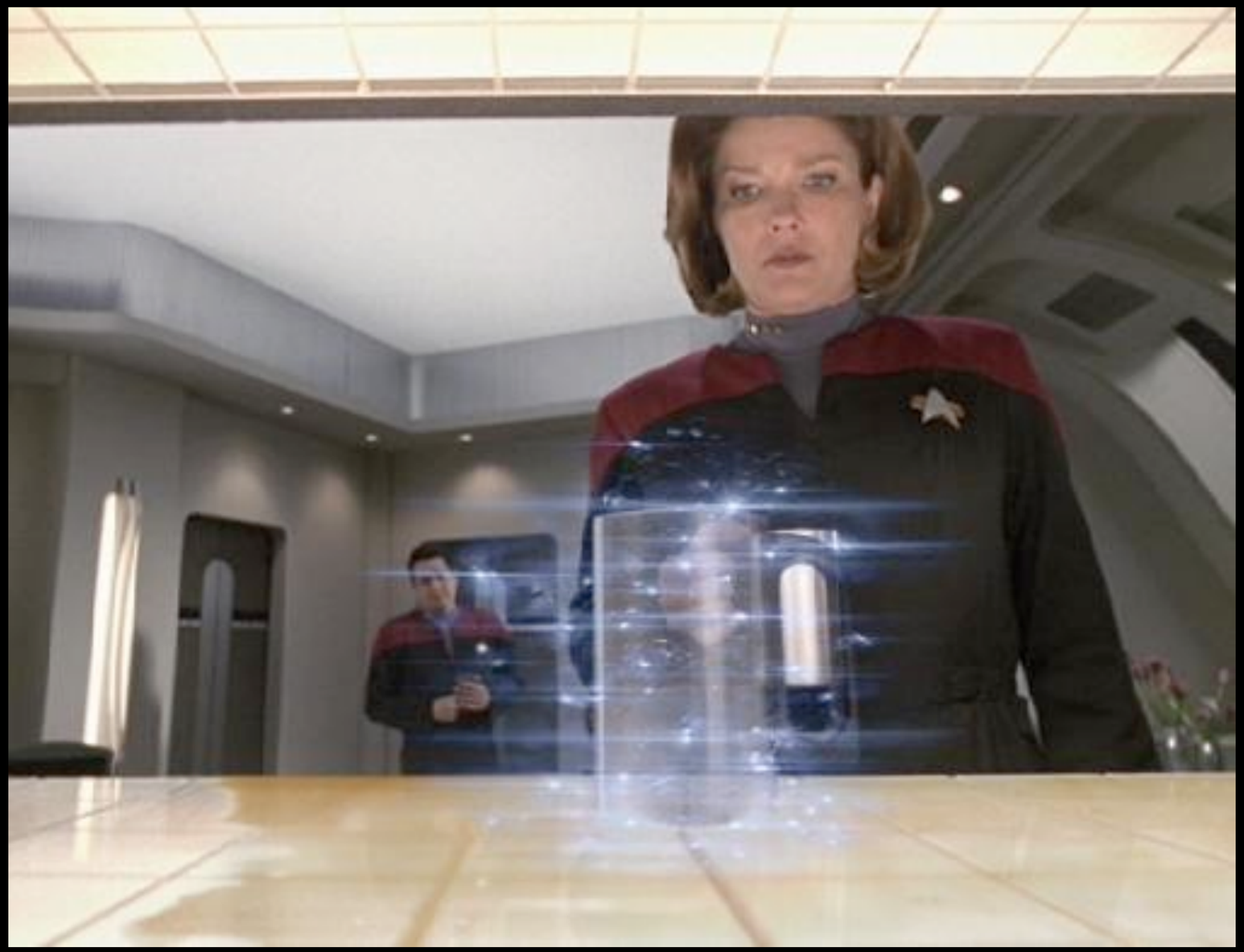

The Relicator!

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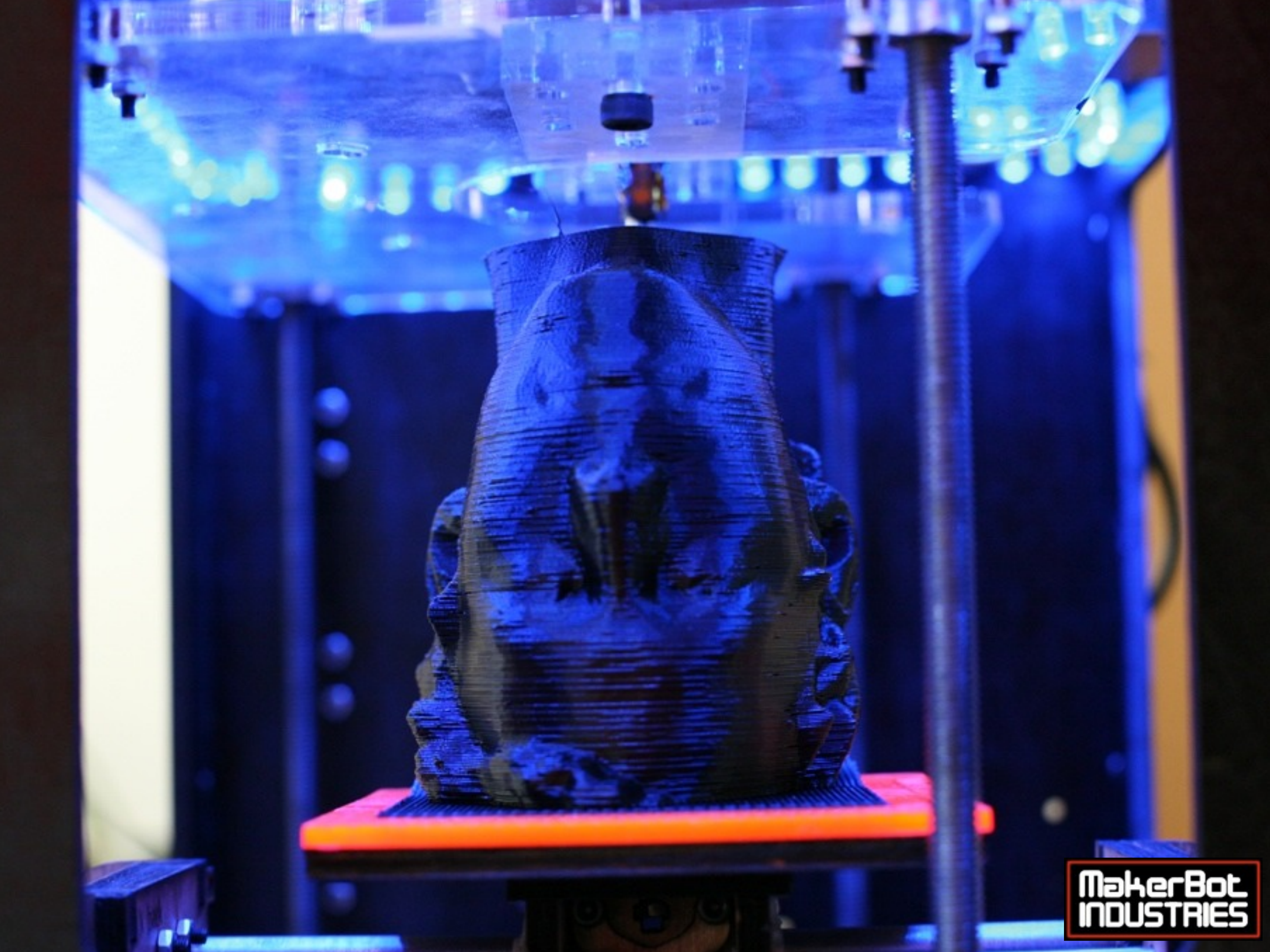
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MakerBot
INDUSTRIES
MakerBot
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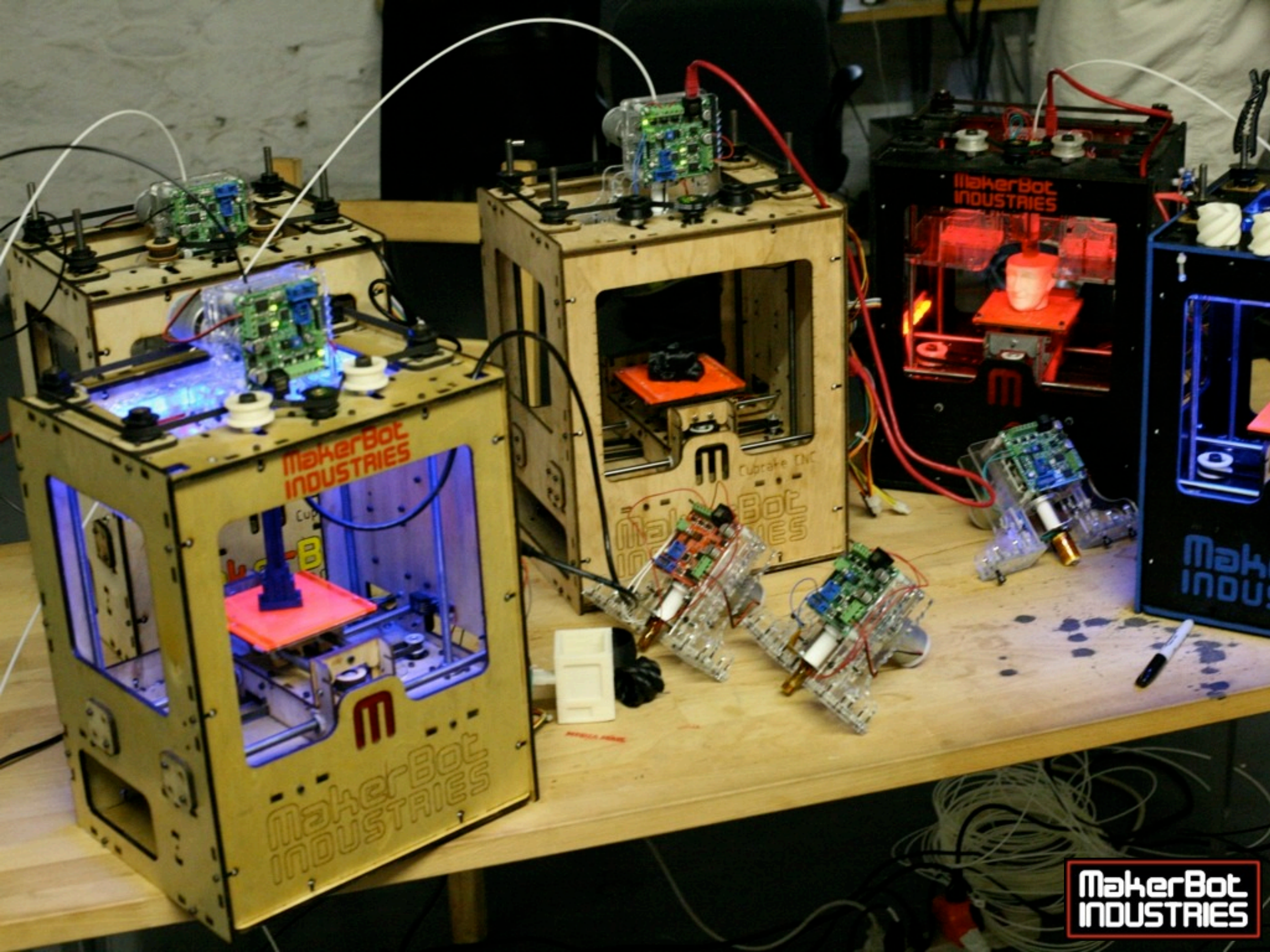
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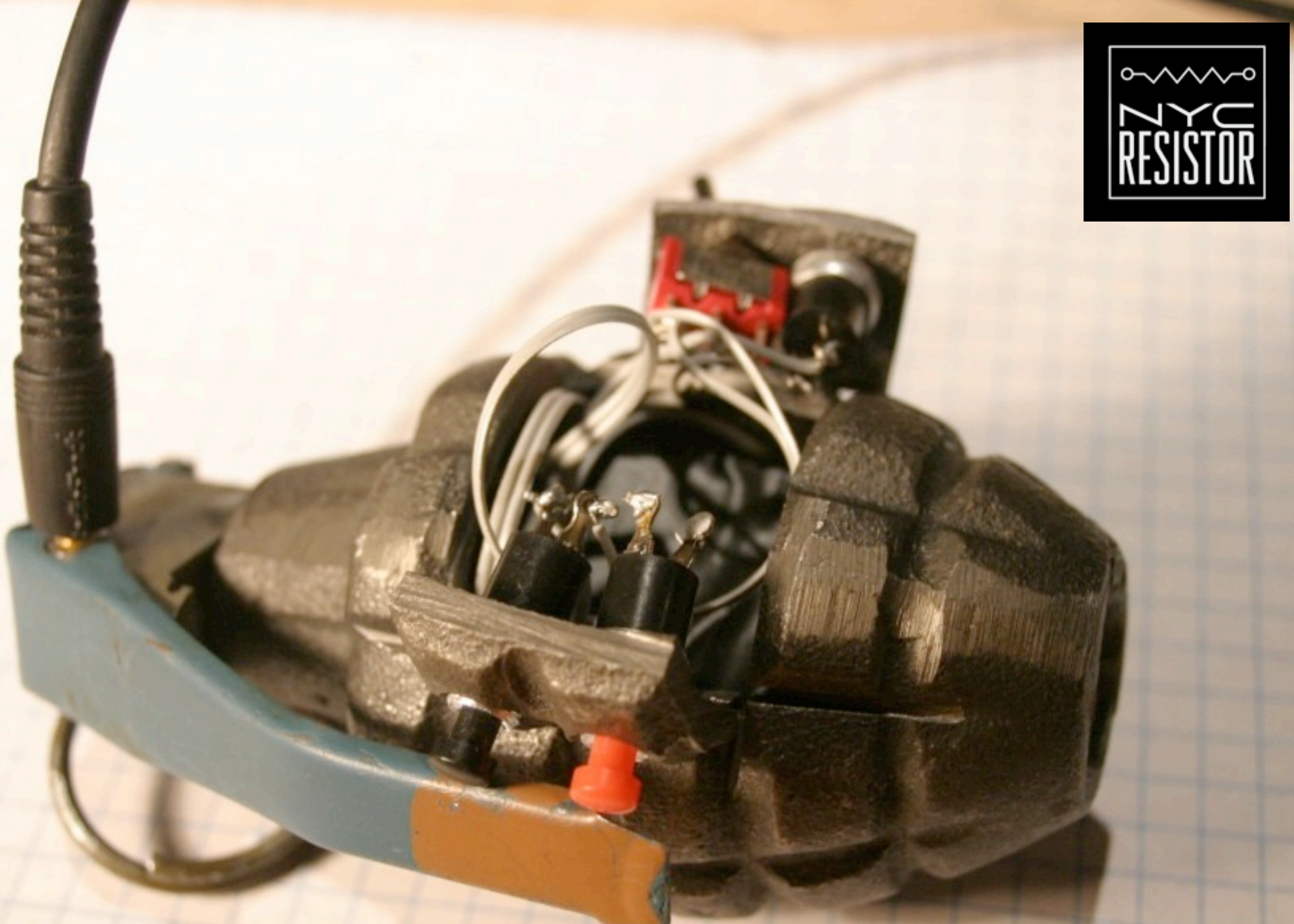
NYC
RESISTOR


DANGER
NYC RESISTOR


NYC
RESISTOR

A UNIVERSE OF THINGS!

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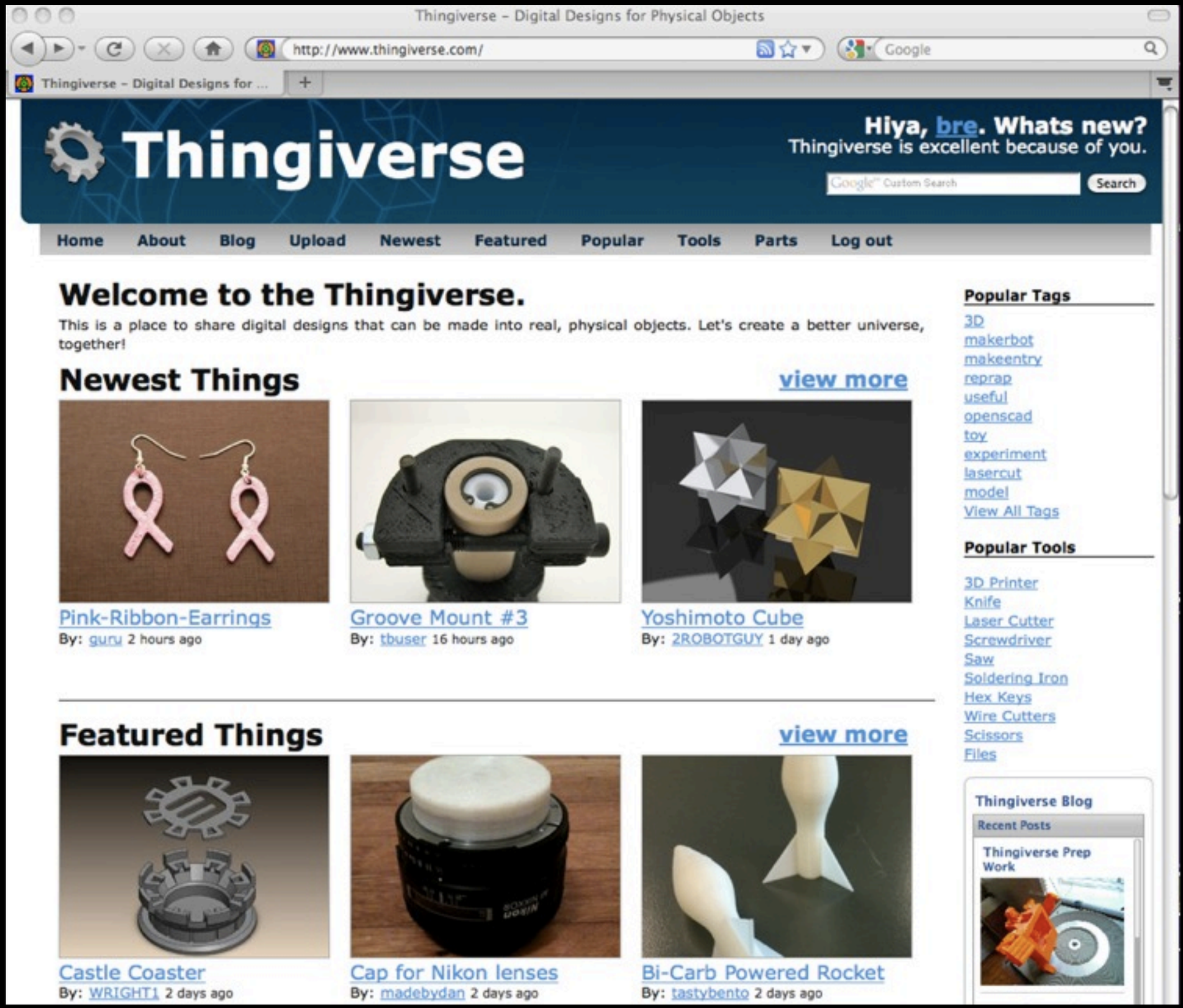

Download Things
(Just like videos, music, and books)

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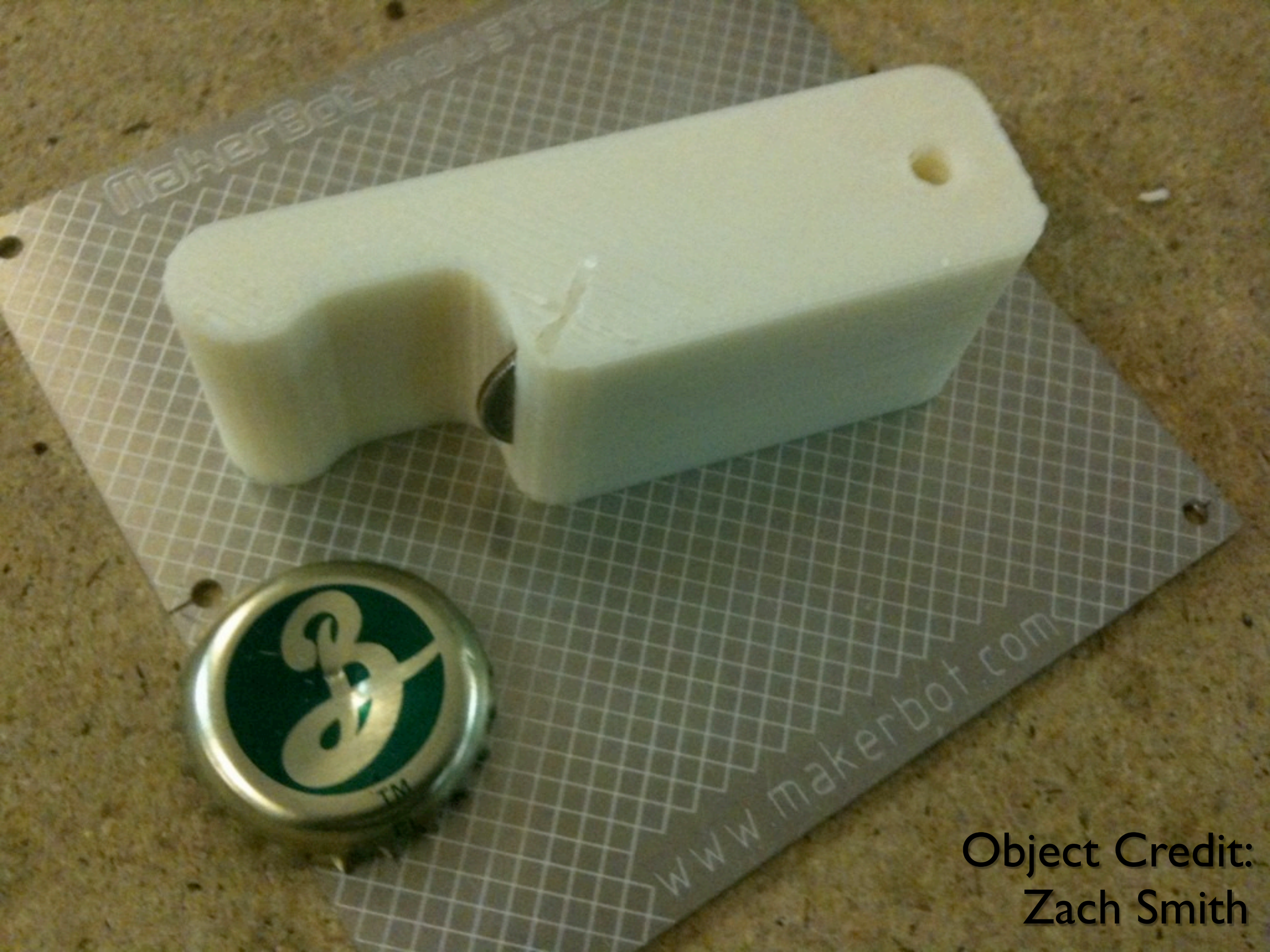
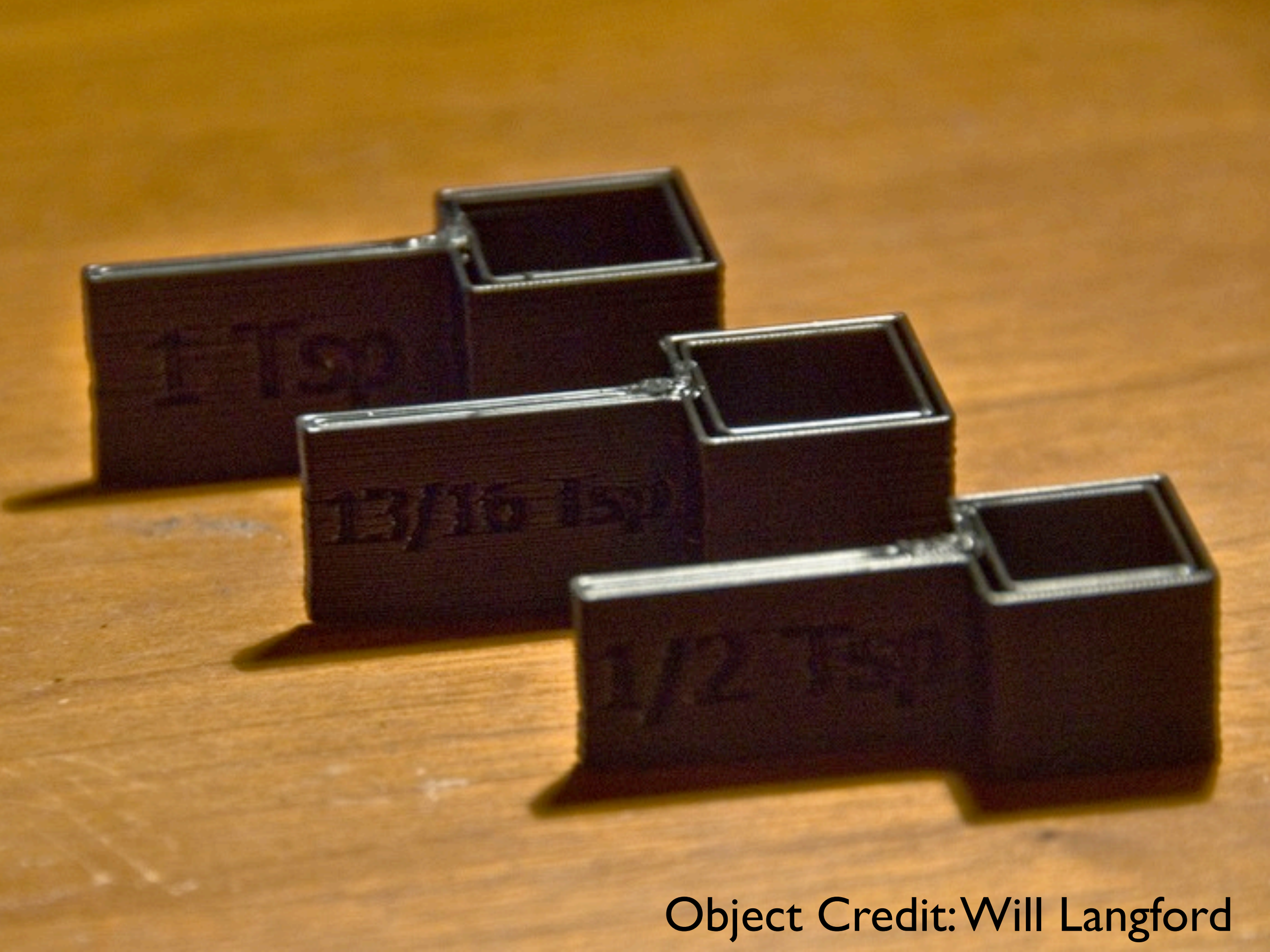
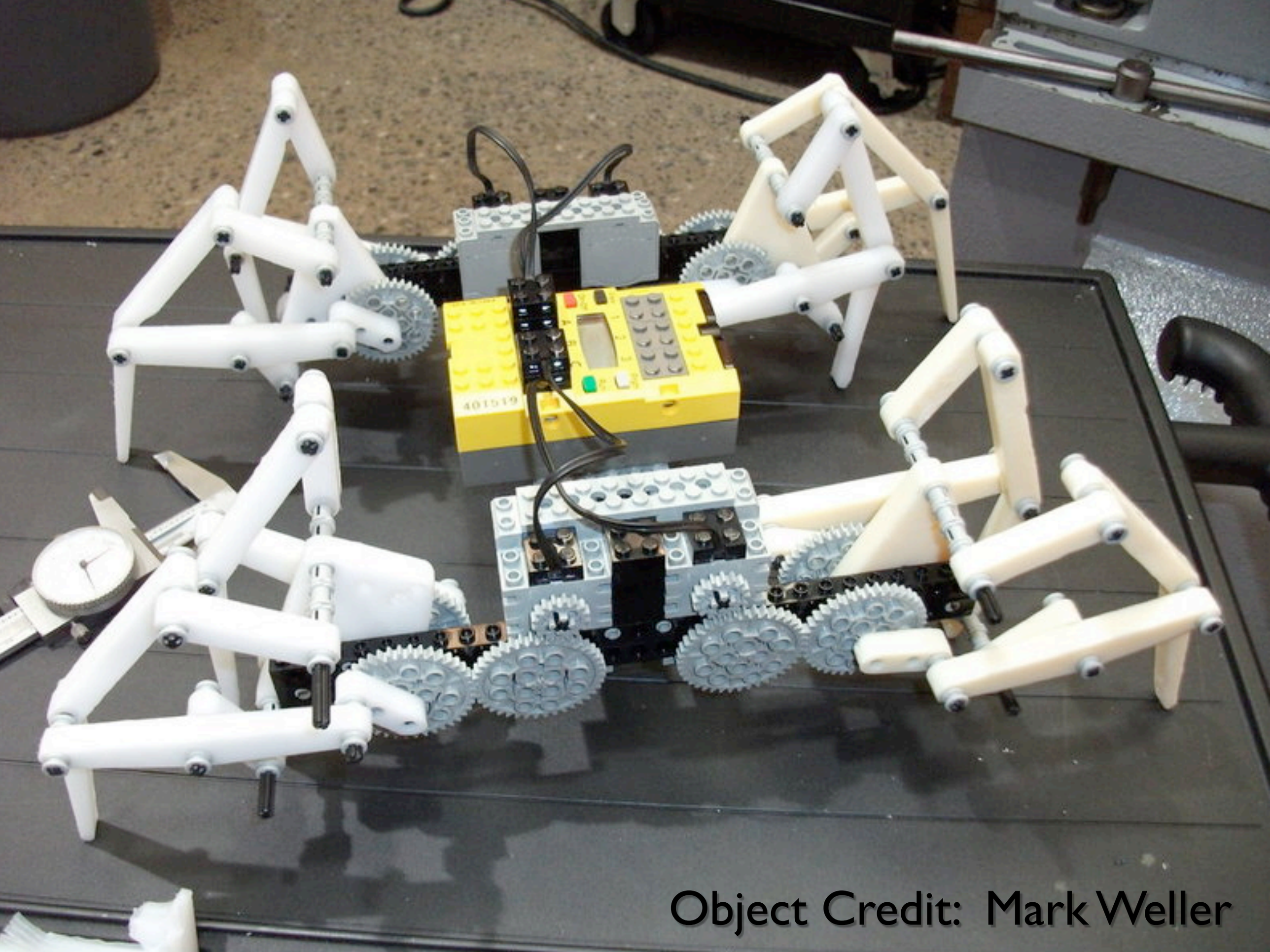


Object Credit:
Zach Smith



Object Credit: Will Langford


Yashica-D
Yashica-D
By Will Langford



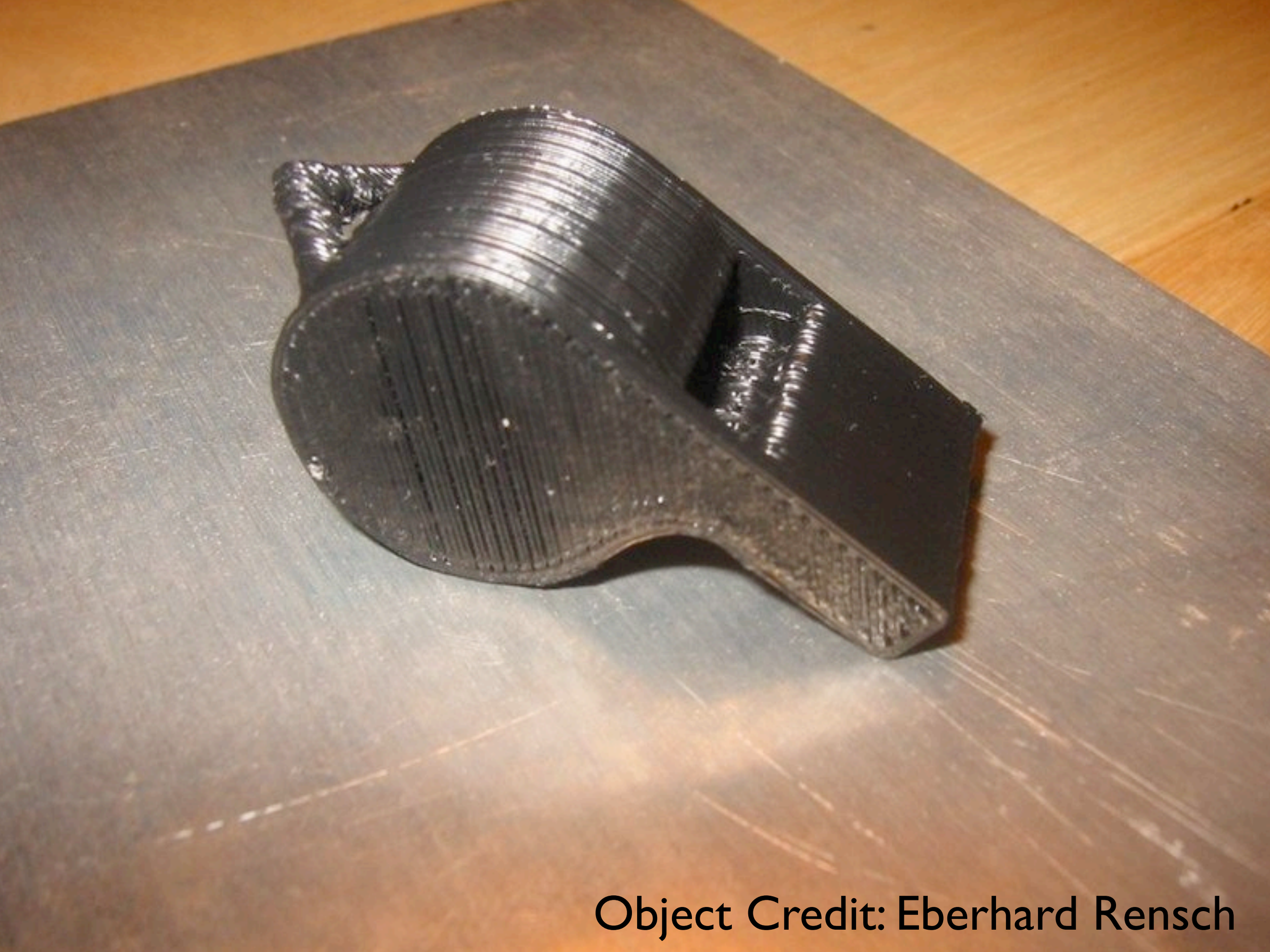
Object Credit: Mark Weller


SysRq
F6
F7
F8
F9
F10
F11
F12
%
5
T
P
3
Alt

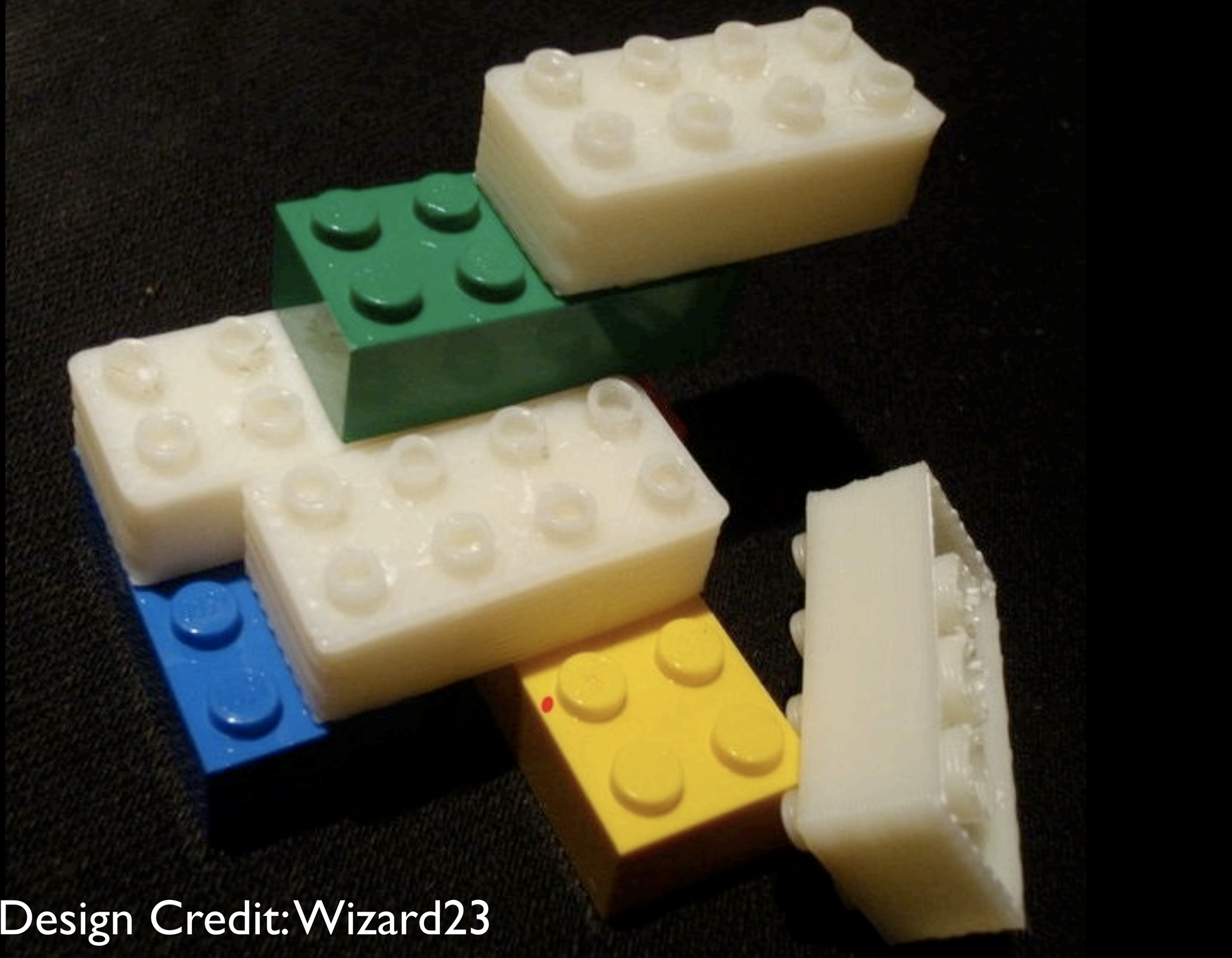
Object Credit:
Dominic Muren

Derivative Credit: Nate True

Object Credit: Owen Collins



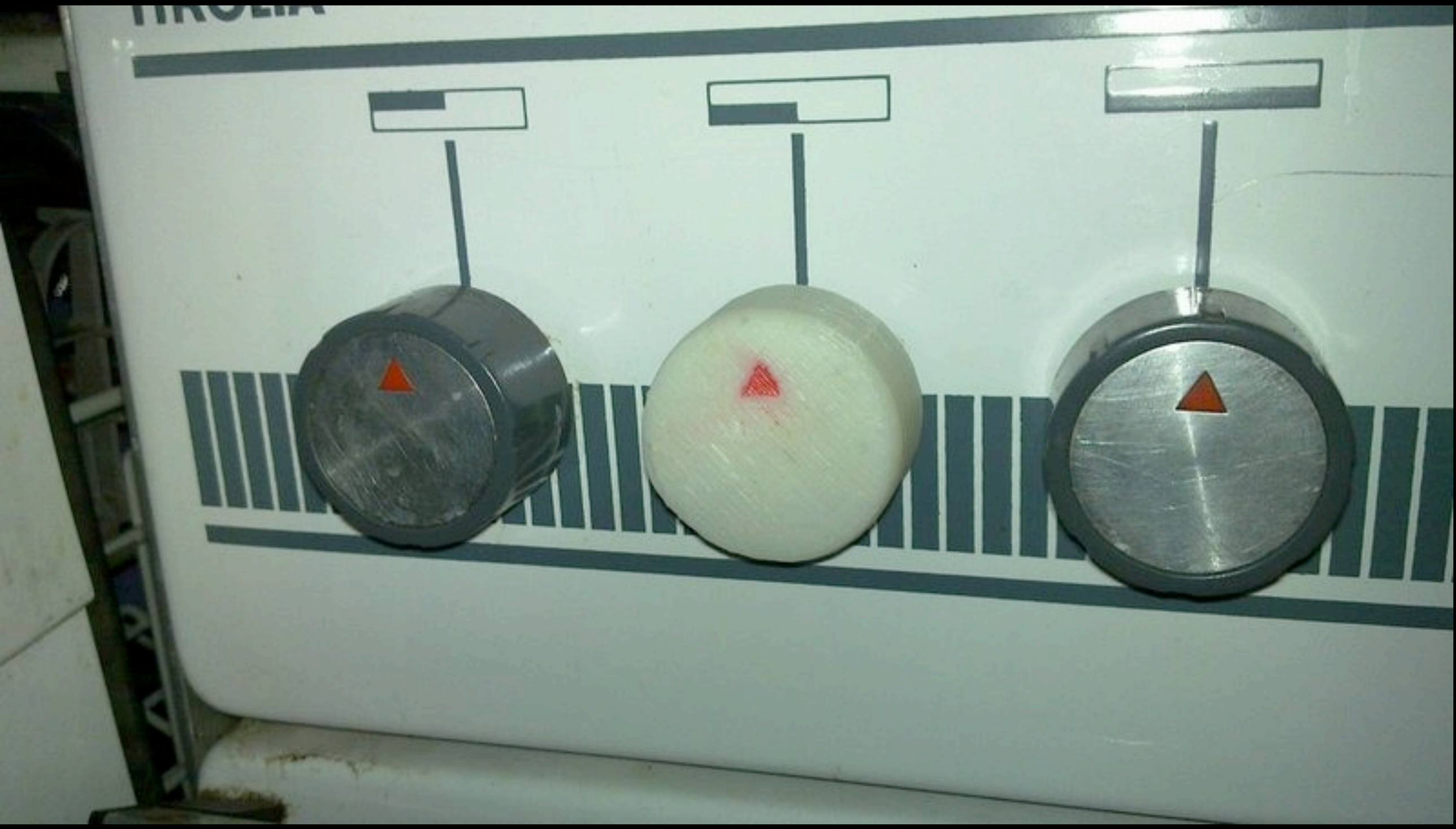
Object Credit: Eberhard Rensch



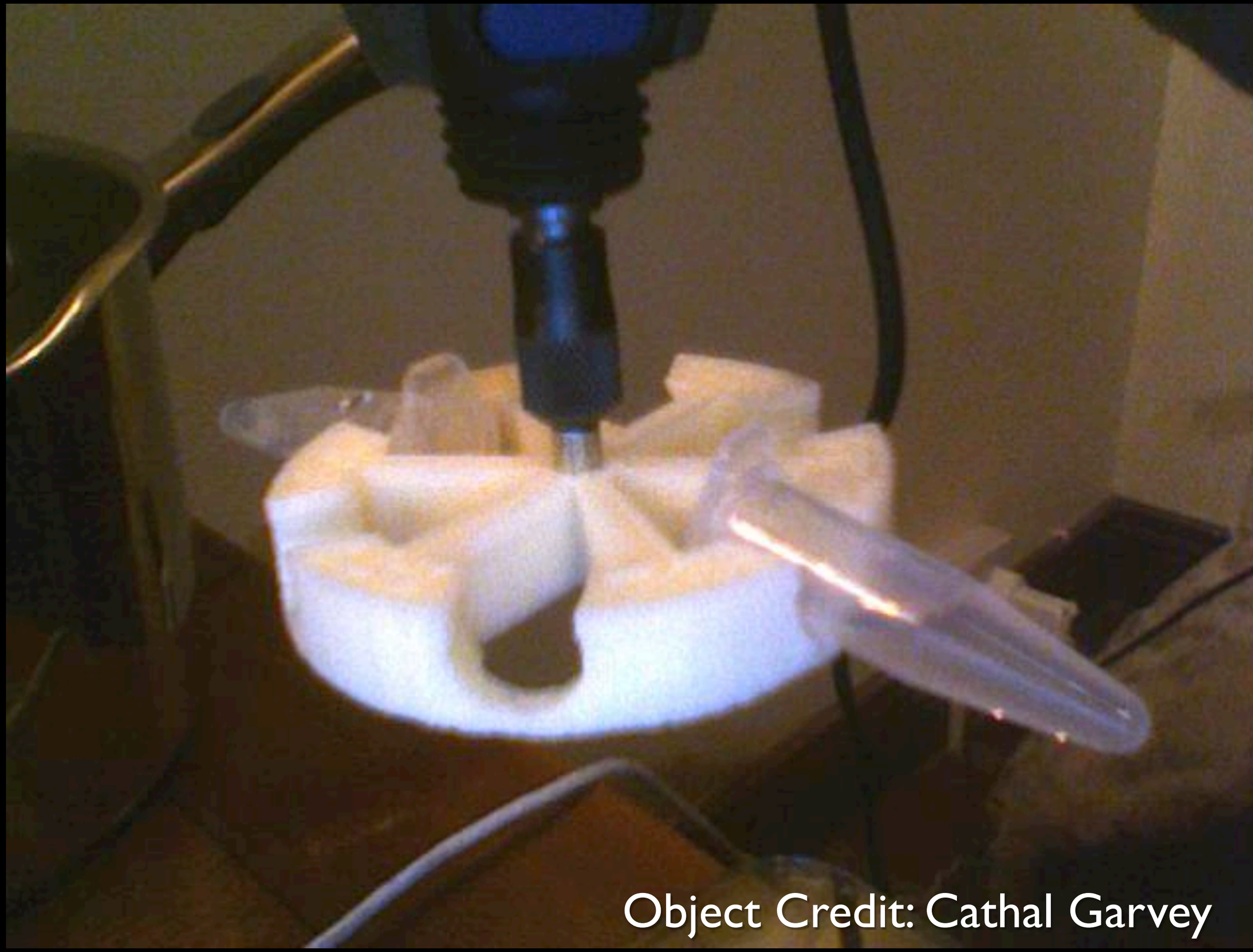
Design Credit: Wizard23

Collaboration between R3becca, Nate True and MakerBlock

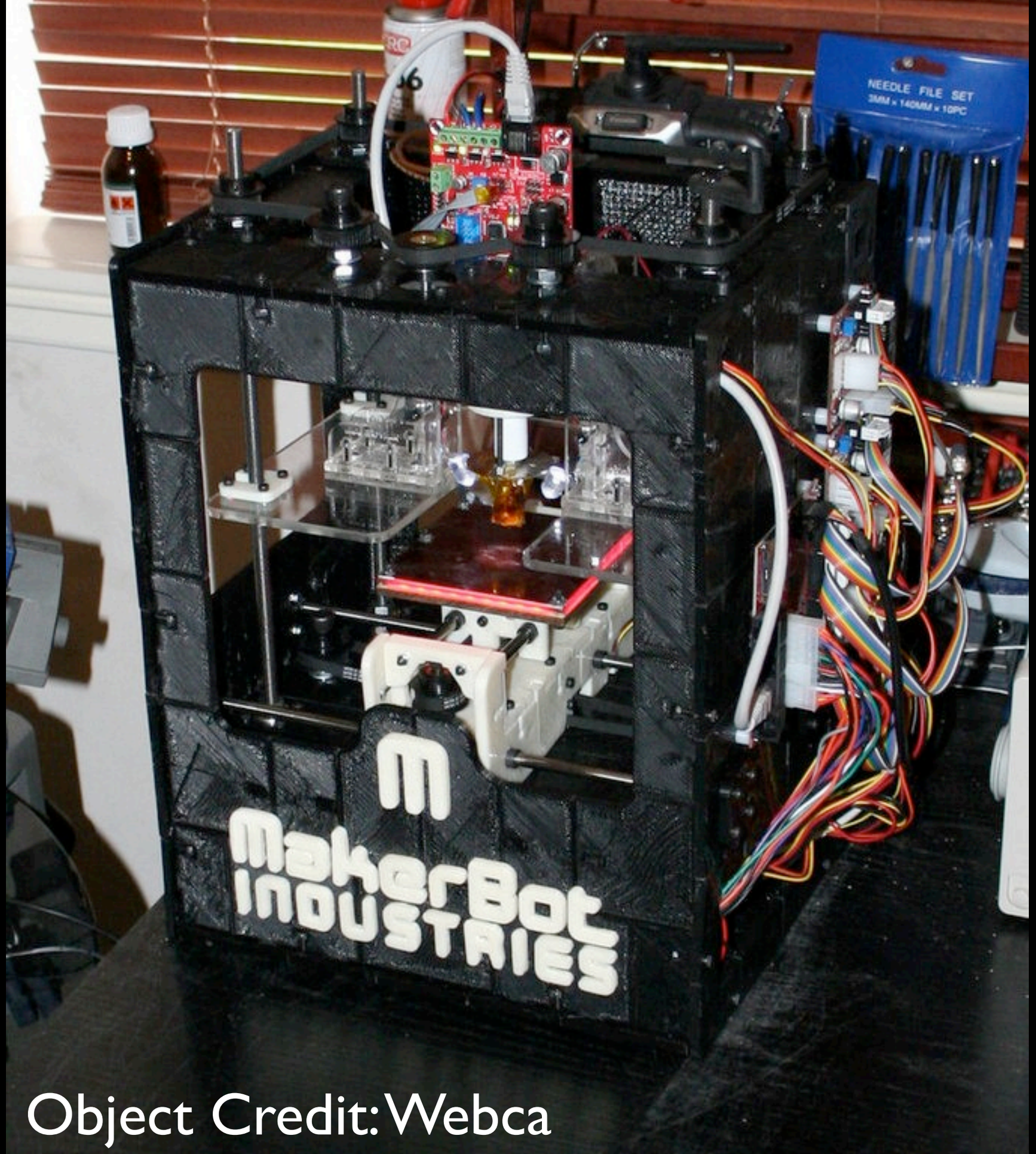
Replacement parts!



Design Credit: wizard23



Object Credit: Cathal Garvey

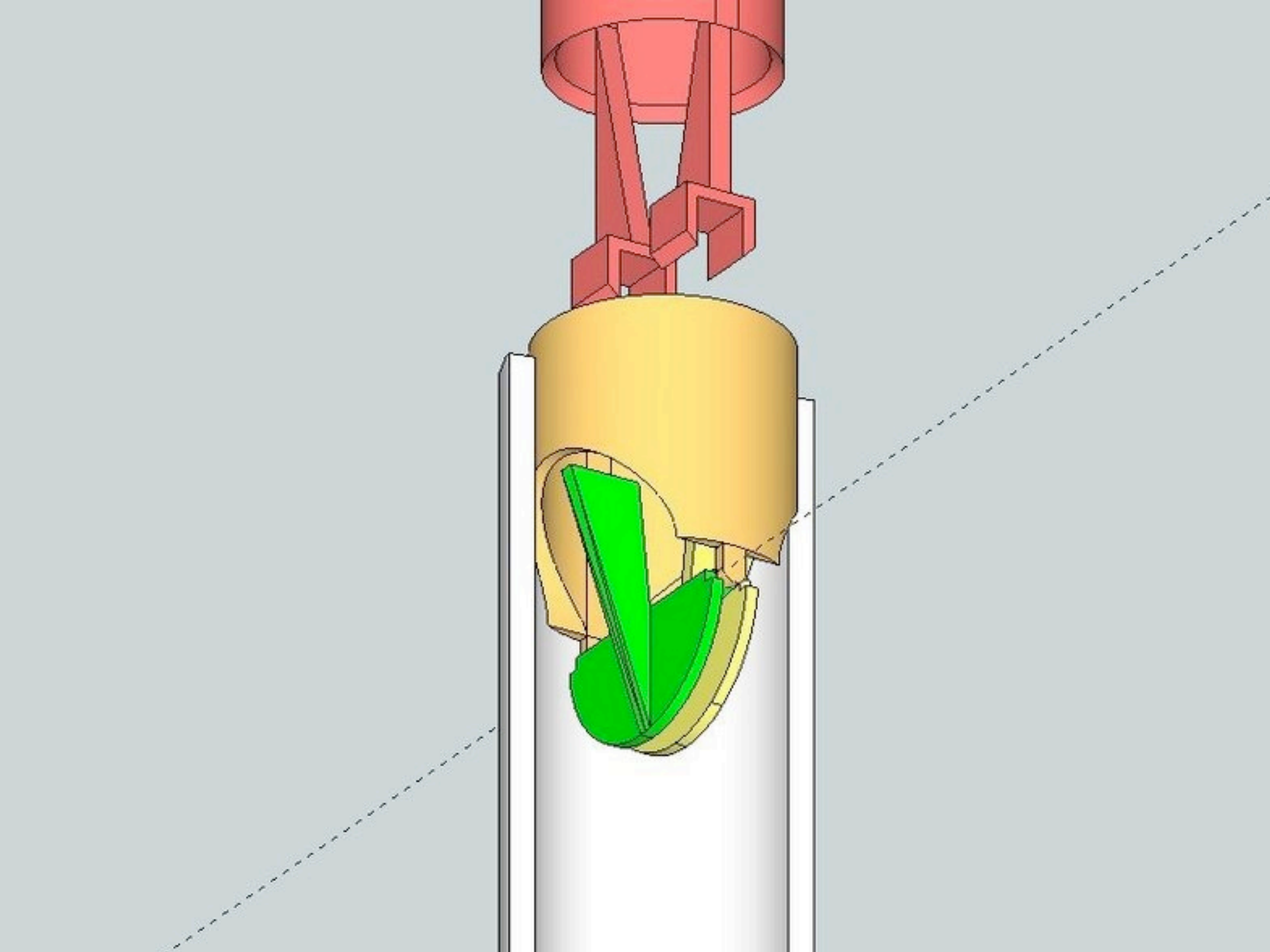


Object Credit: Webca

Object Credit: dmatsumoto

Object Credit: Junior Tan


THE ART OF



Object Credit: bpijls


Object Credit: jmillerid


Object Credit: Adam Elkins

If you can't download it,
you have to design itl

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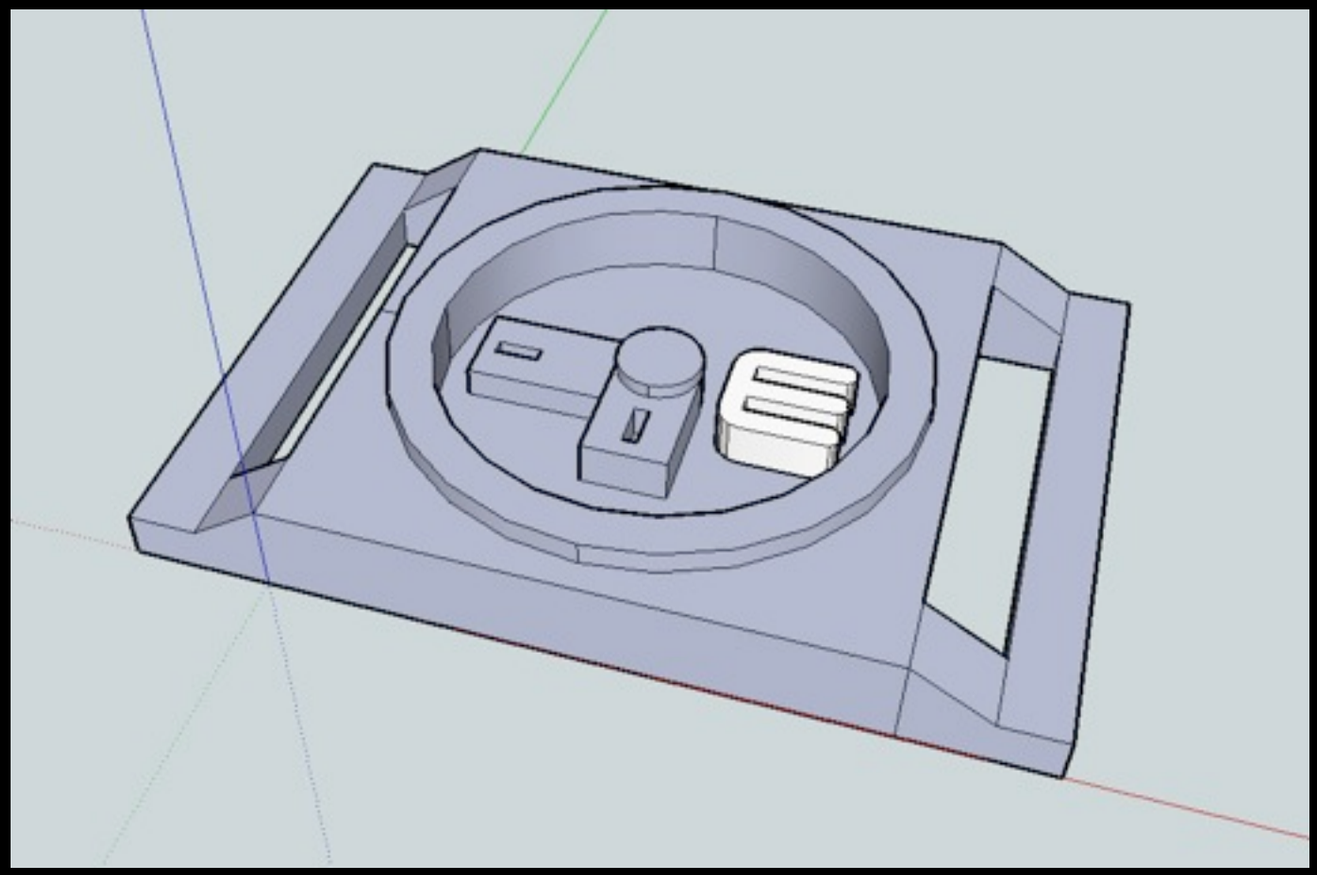

Free and/or Open Source Modelling software!

OpenSCAD, Sketchup, Blender, Art of illusion, and more.

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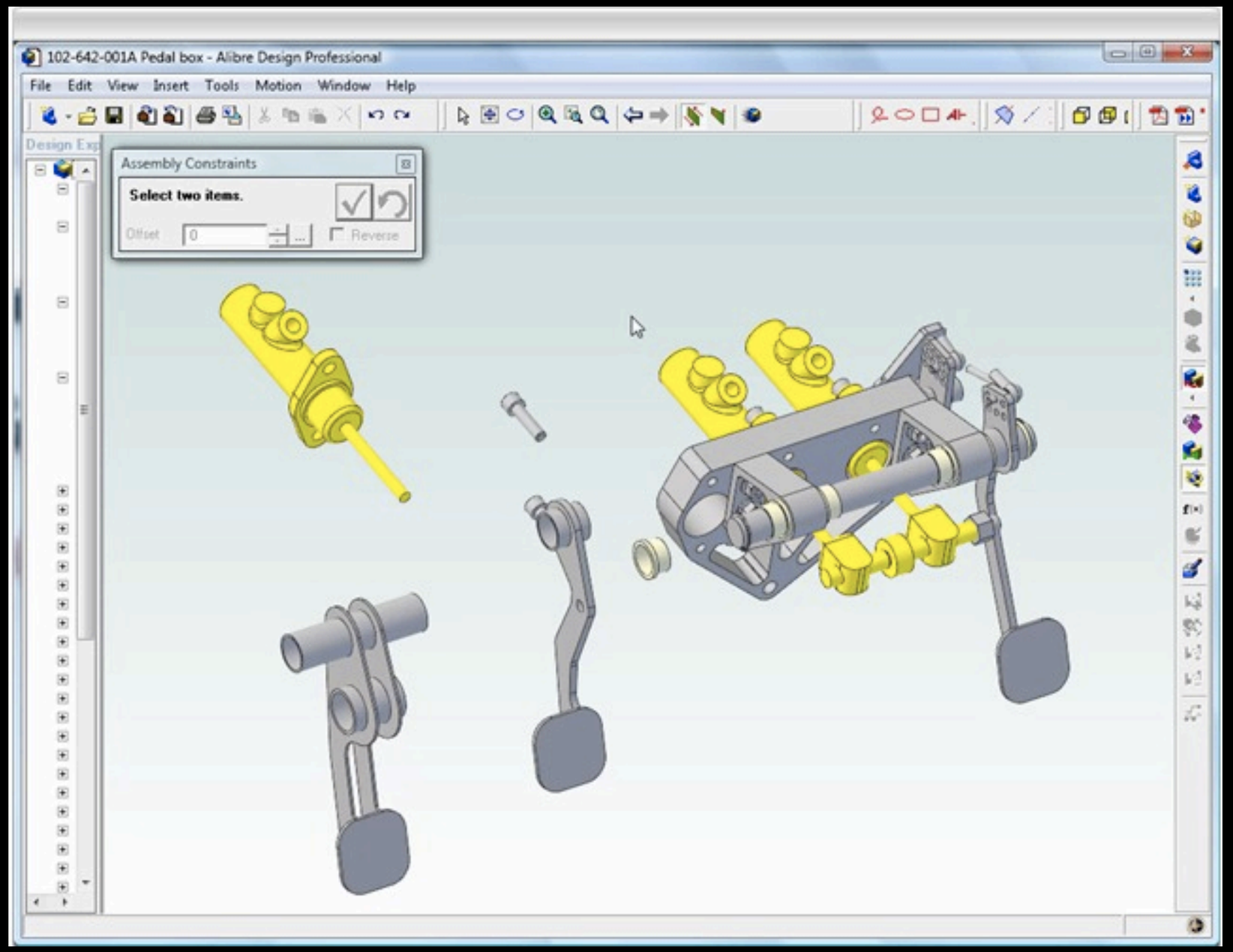
Some programs are not free



Alibre, AutoCAD, Inventor, Solidworks

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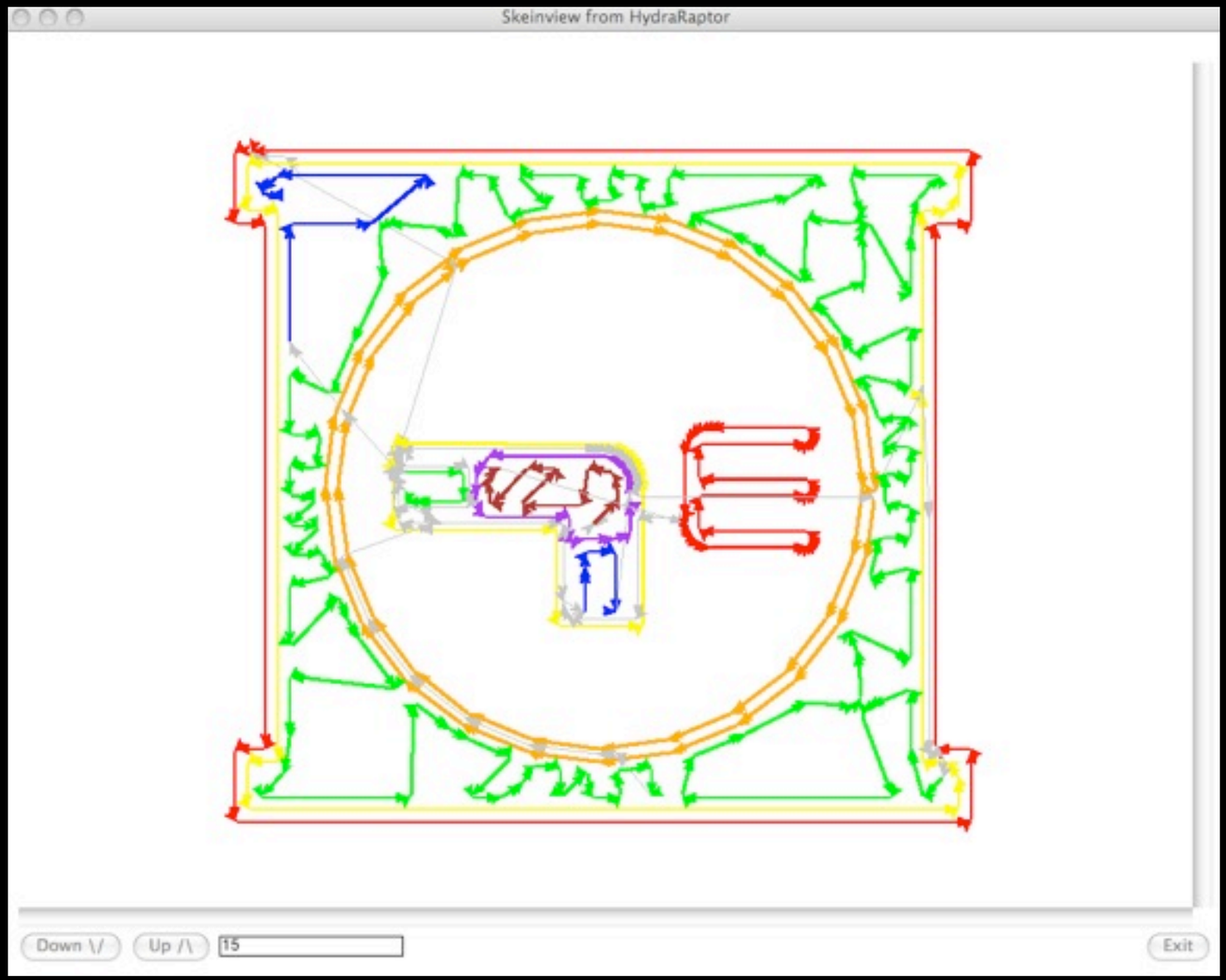

Once you have the design you slice it with skeinforge

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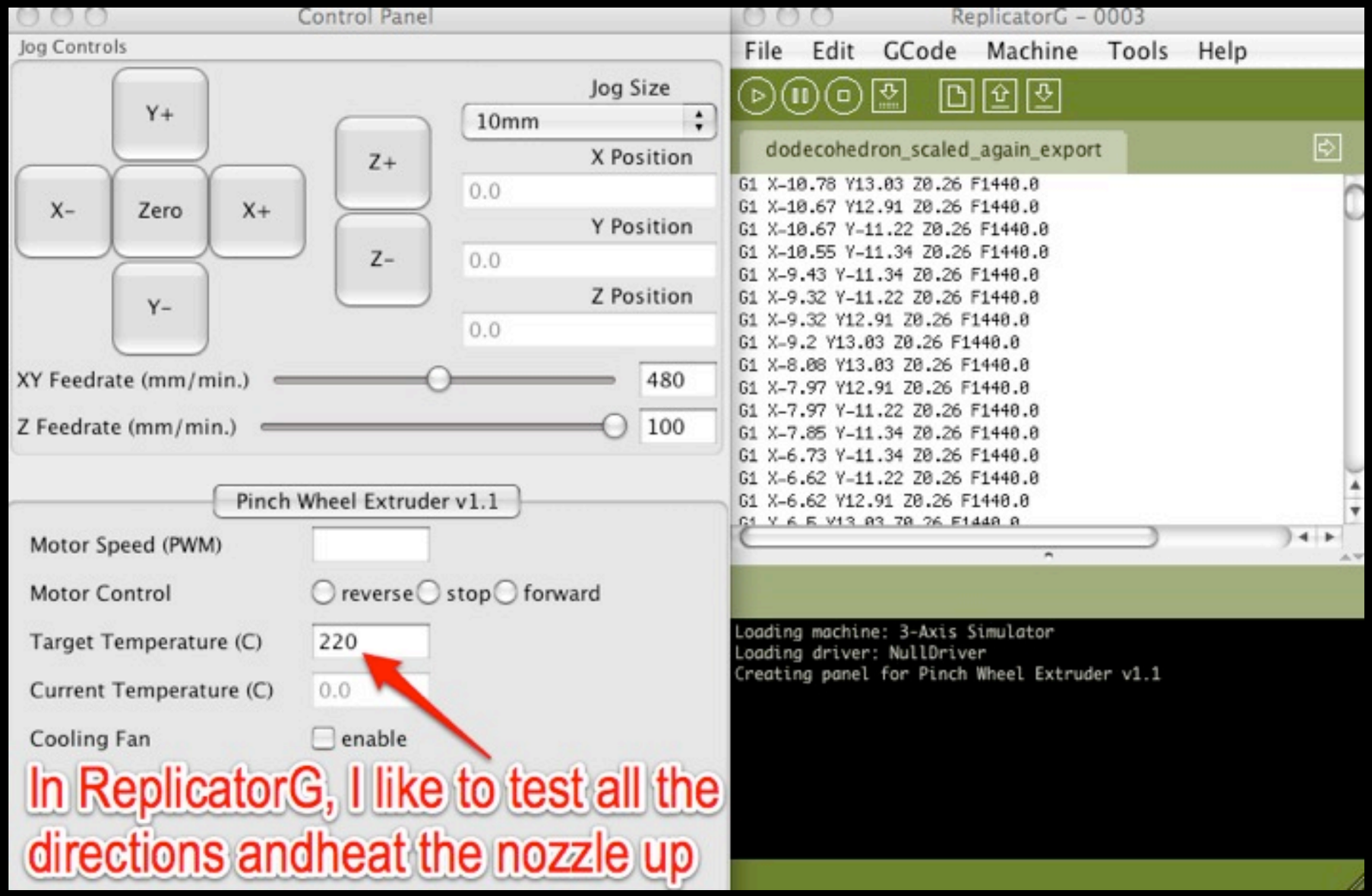

ReplicatorG

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Print it!

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Cathal Garvey had a mouse problem.

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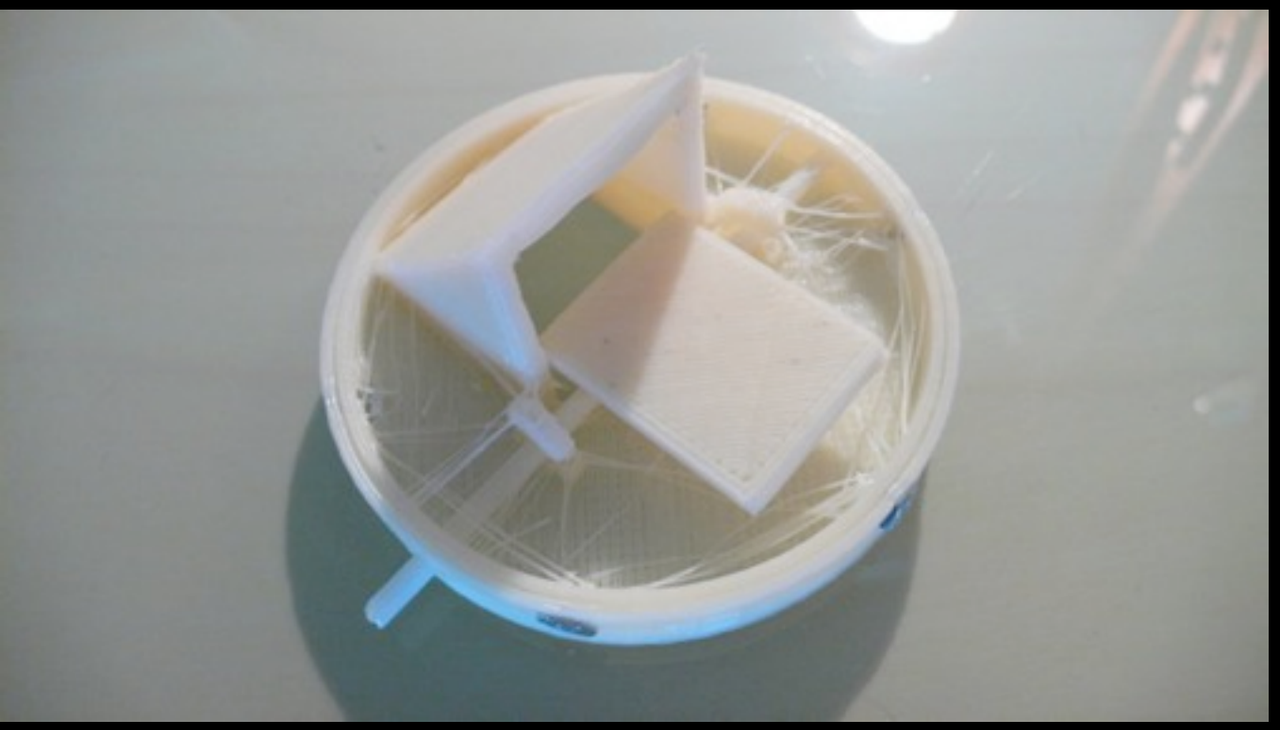

He crowdsourced eleven solutions

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With open source manufacturing tools, when one person solves a problem they solve it for everyone in their community.

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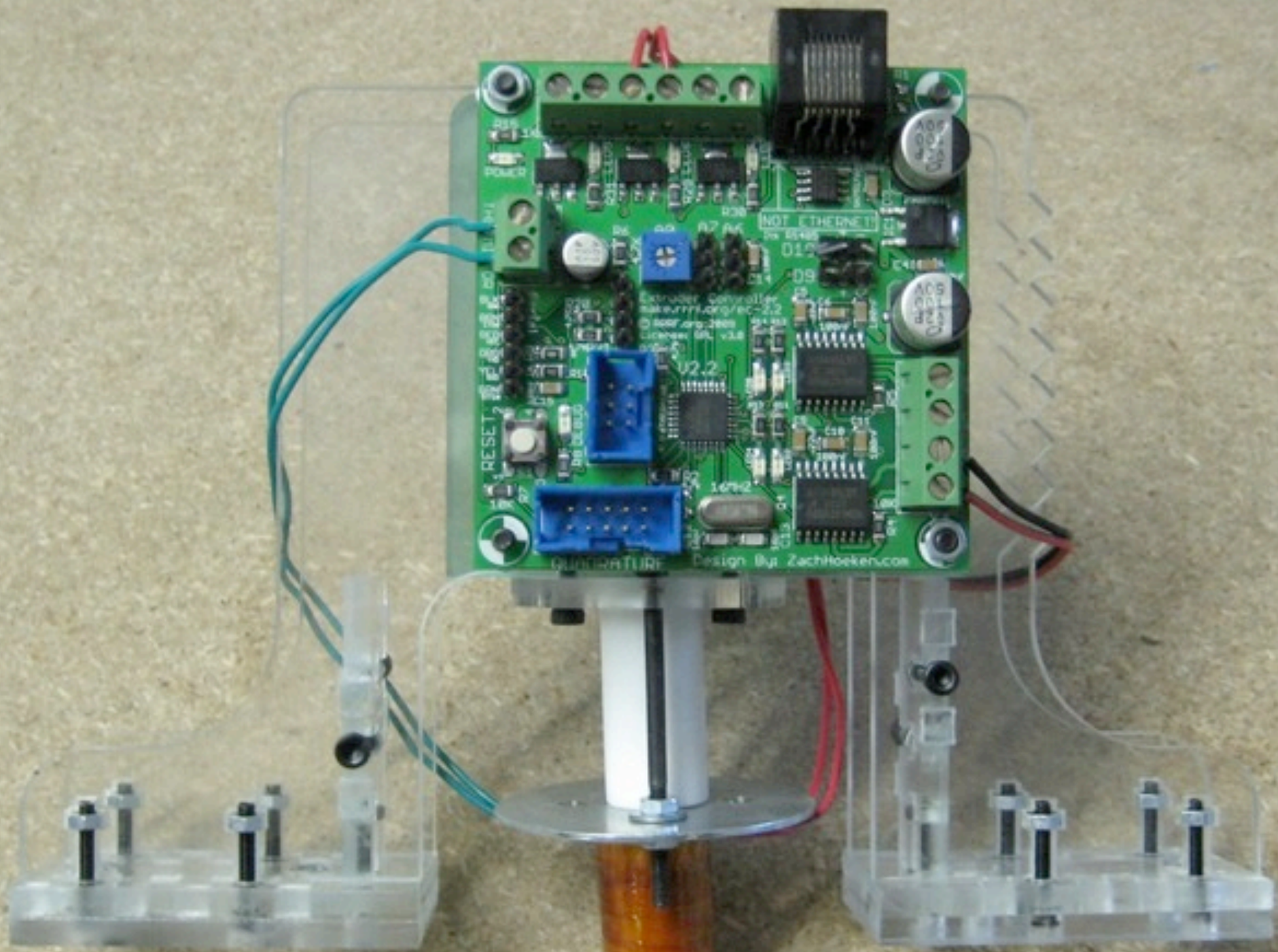
MakerBot MK4 Plastruder



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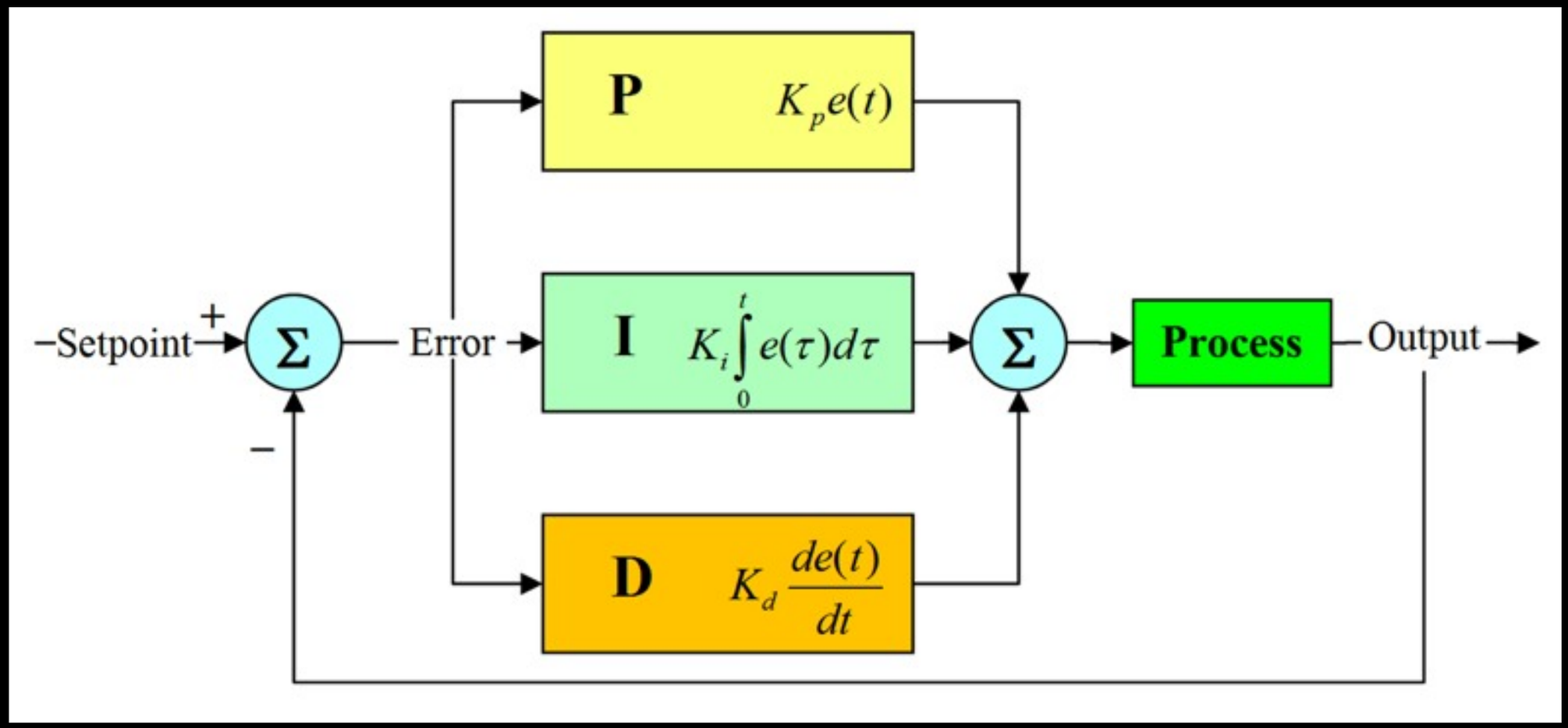
proportional–integral–derivative controller (**PID controller**) is a generic control loop feedback mechanism (controller) widely used in industrial control systems. A PID controller attempts to correct the error between a measured process variable and a desired setpoint by calculating and then instigating a corrective action that can adjust the process accordingly and rapidly, to keep the error minimal.



Improvement Credit: Tim Myrtle

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Some things to think about:

Abundance, and Sharing

Customization VS Mass Manufacturing

Personalized VS Branded

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Beginning.

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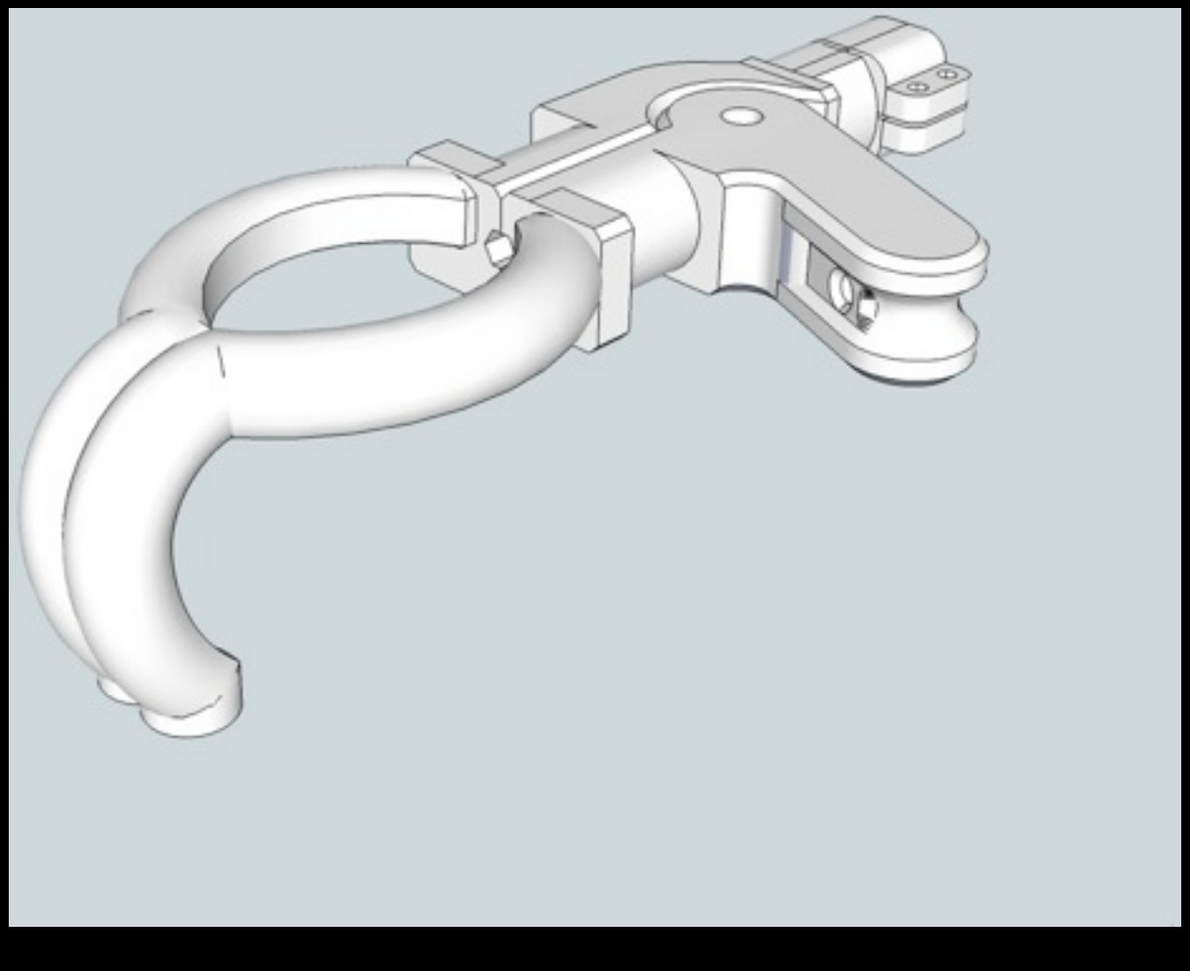

Frontiers: organs, investment casting, syringe-ables and all sorts of THINGS (The nearly possible is tangible)

Trautman Hook - Open Prosthetics Project
Object Credit: spedzero

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MakerBot Basics

- Cheap and accessible ($950)
- Culture of sharing
- Frontier of possibilities.

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You're invited to push the frontier of personal manufacturing!

@MakerBot - @Thingiverse - @Bre

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