

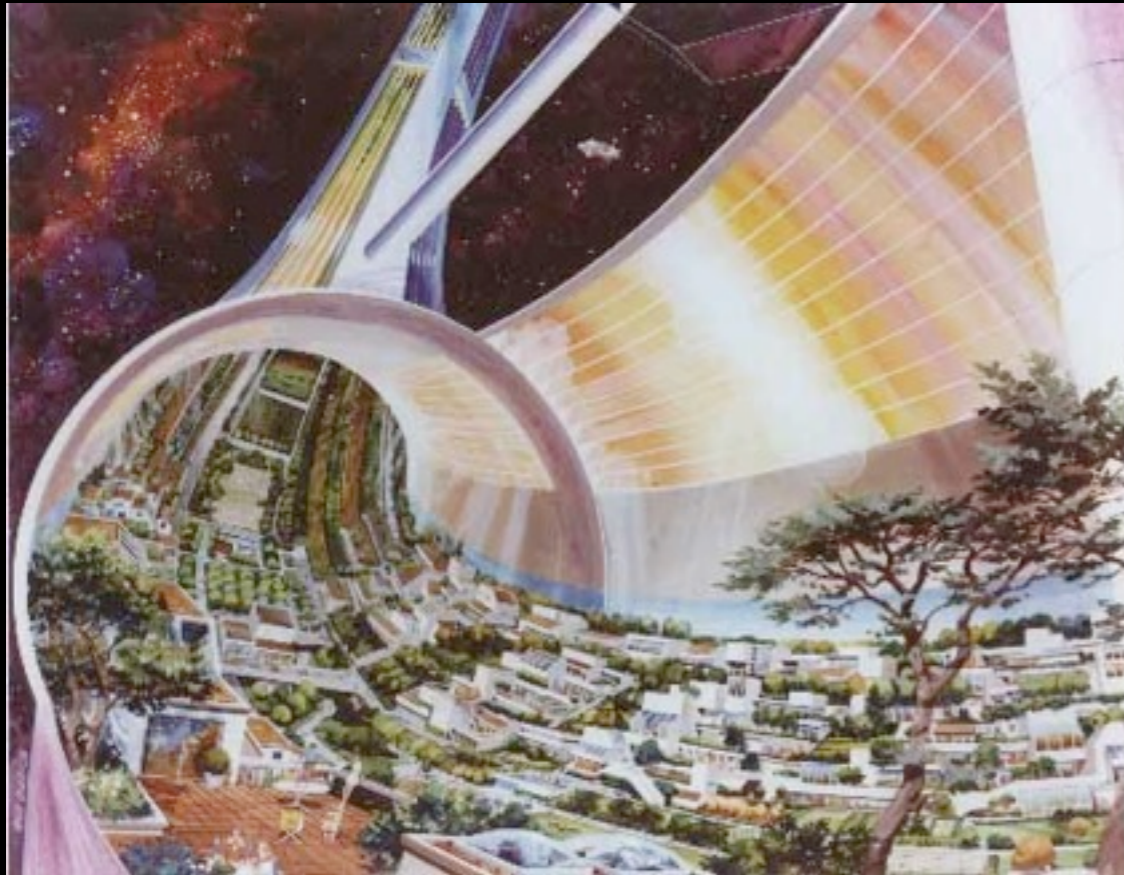
The Robot That Sharing Built

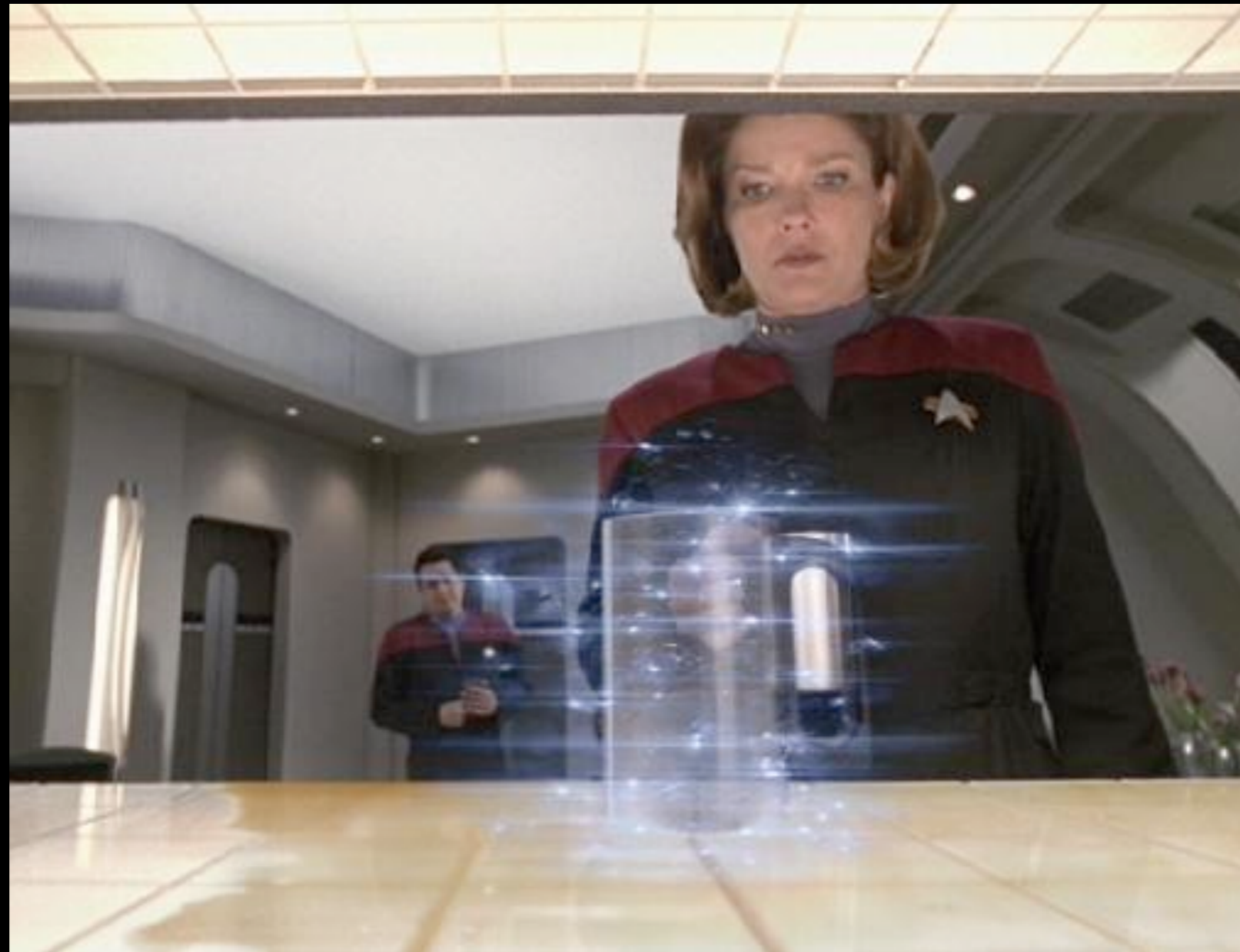
Bre Pettis

@bre @makerbot

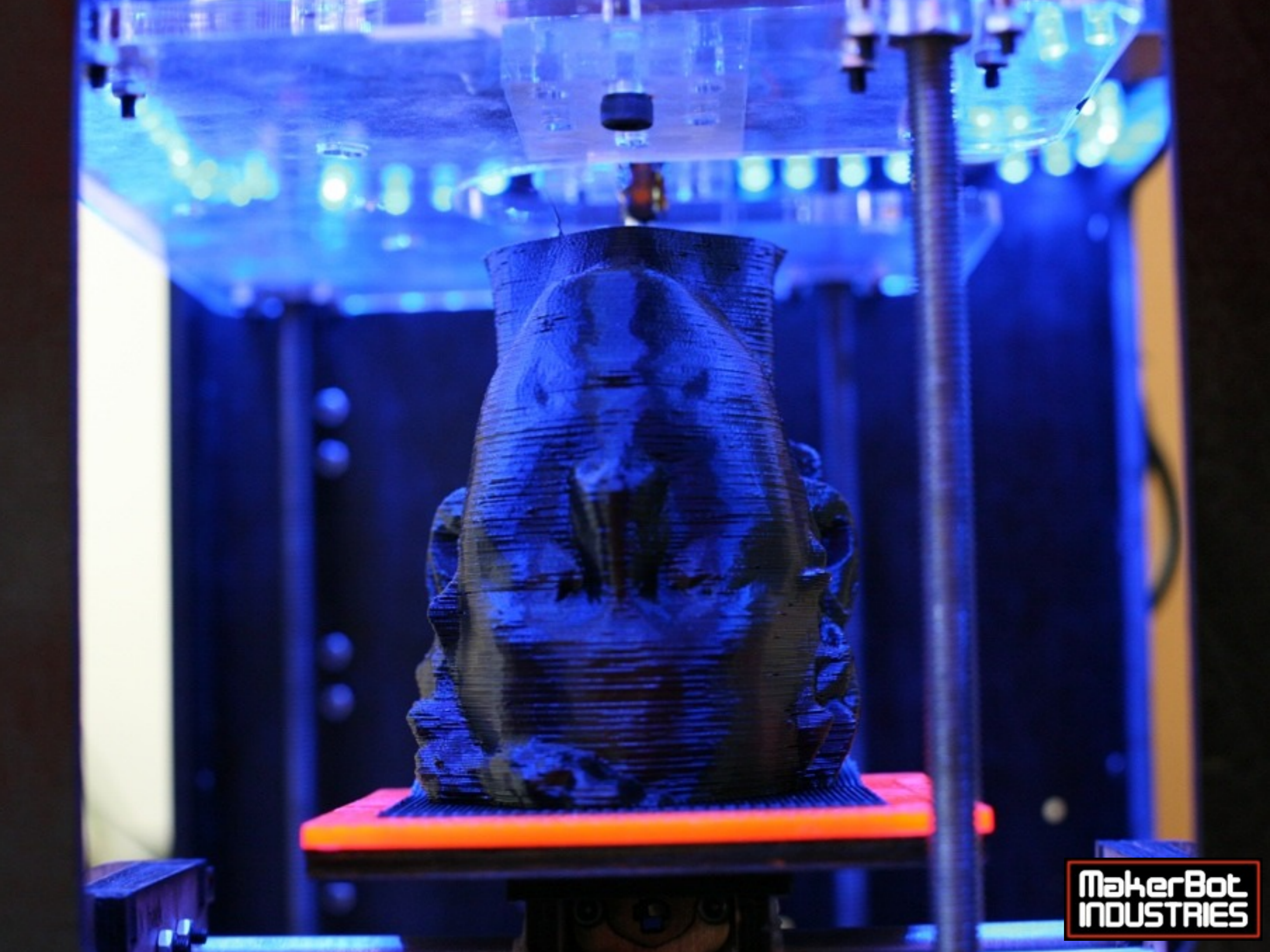
MakerBot
INDUSTRIES

The Future





The Relicator!



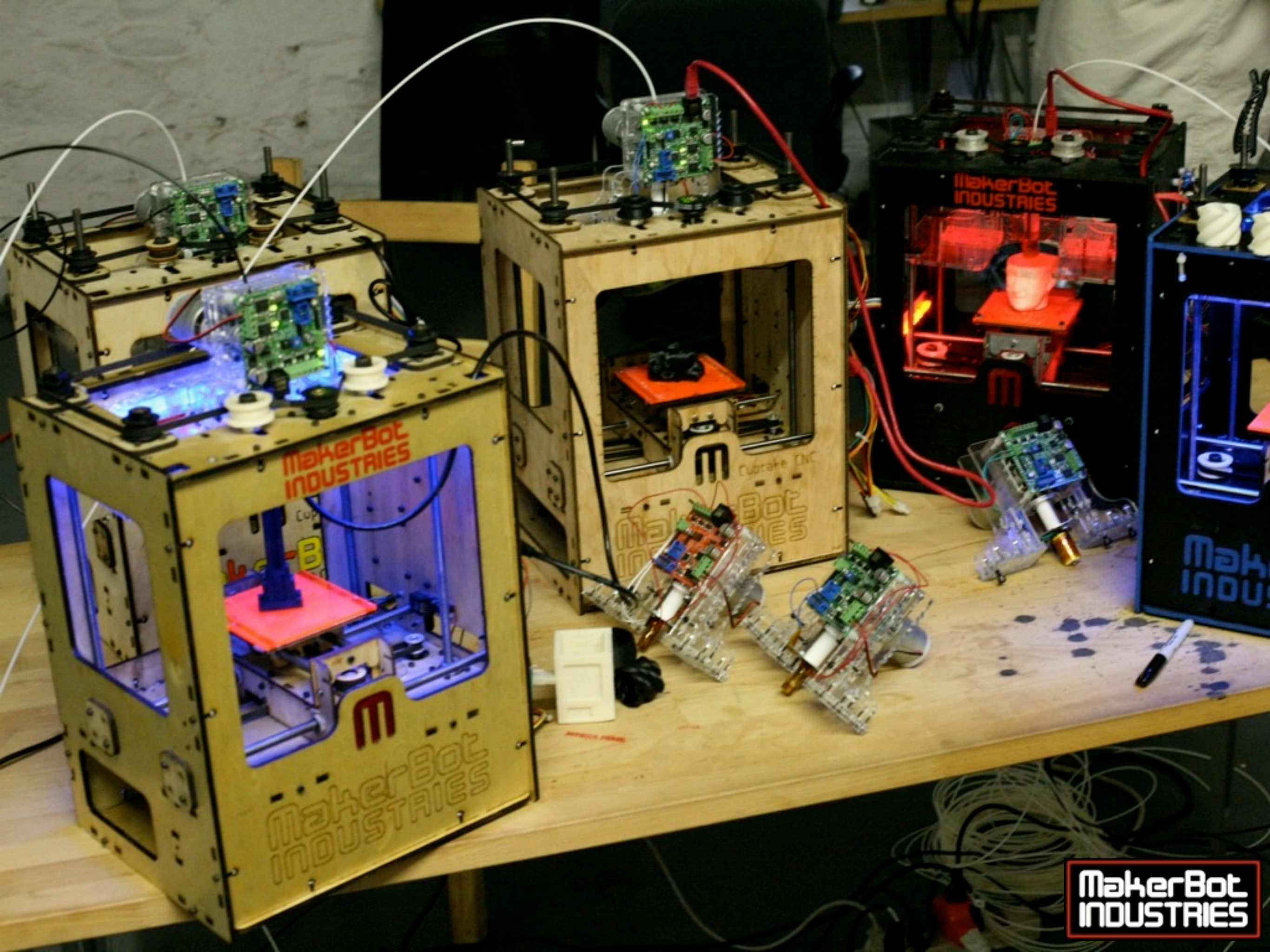


MakerBot
INDUSTRIES



MakerBot
INDUSTRIES

MakerBot
INDUSTRIES



MakerBot
INDUSTRIES

Cuprate CNC

MakerBot
INDUSTRIES

M

MakerBot
INDUSTRIES

MakerBot
INDUSTRIES

MakerBot
INDUSTRIES

MakerBot
INDUSTRIES

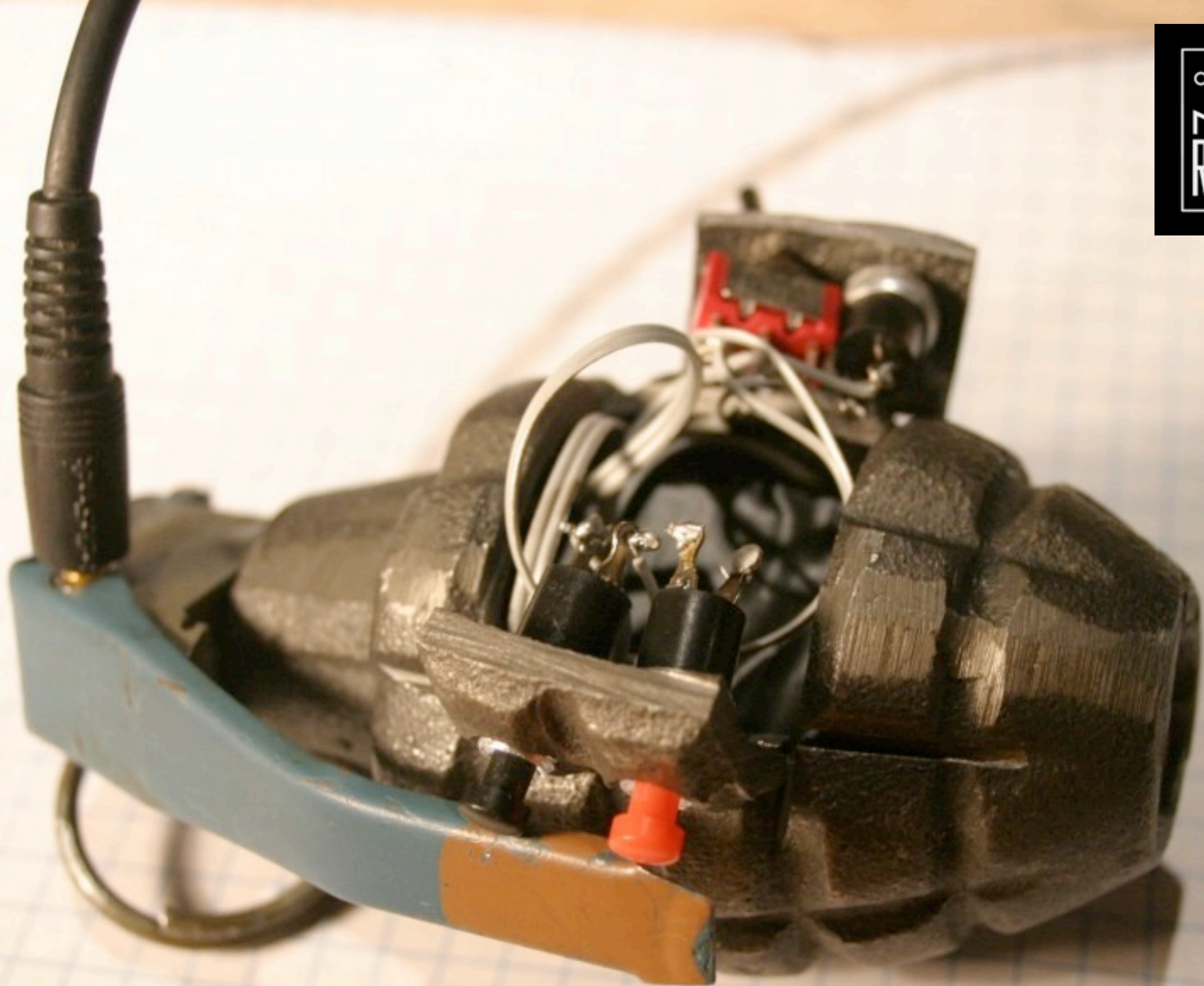




DANGER

NYC
RESISTOR





A UNIVERSE OF THINGS!

Thingiverse - Digital Designs for Physical Objects

http://www.thingiverse.com/

Thingiverse - Digital Designs for ...

Thingiverse

Hiya, bre. Whats new?
Thingiverse is excellent because of you.

Google Custom Search Search


Home About Blog Upload Newest Featured Popular Tools Parts Log out

Welcome to the Thingiverse.

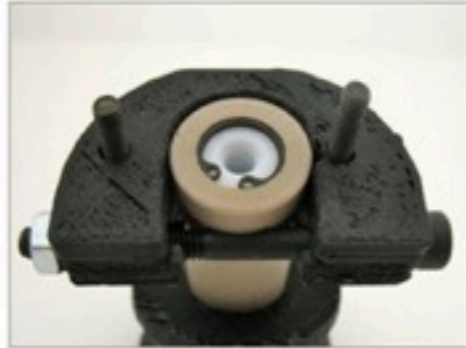
This is a place to share digital designs that can be made into real, physical objects. Let's create a better universe, together!

Newest Things

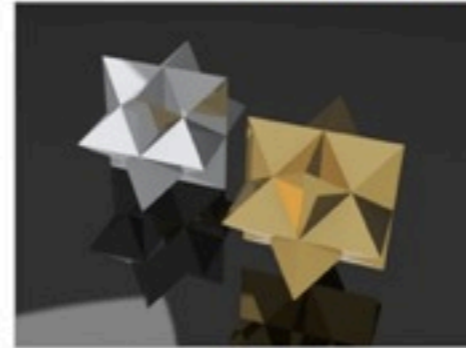
[view more](#)



[Pink-Ribbon-Earrings](#)
By: [guru](#) 2 hours ago




[Groove Mount #3](#)
By: [tbuser](#) 16 hours ago




[Yoshimoto Cube](#)
By: [2ROBOTGUY](#) 1 day ago

Featured Things


[view more](#)



[Castle Coaster](#)
By: [WRIGHT1](#) 2 days ago



[Cap for Nikon lenses](#)
By: [madebydan](#) 2 days ago



[Bi-Carb Powered Rocket](#)
By: [tastybento](#) 2 days ago

Popular Tags

[3D](#)
[makerbot](#)
[makeentry](#)
[reprap](#)
[useful](#)
[openscad](#)
[toy](#)
[experiment](#)
[laser](#)
[cut](#)
[model](#)
[View All Tags](#)


Popular Tools

[3D Printer](#)
[Knife](#)
[Laser Cutter](#)
[Screwdriver](#)
[Saw](#)
[Soldering Iron](#)
[Hex Keys](#)
[Wire Cutters](#)
[Scissors](#)
[Files](#)

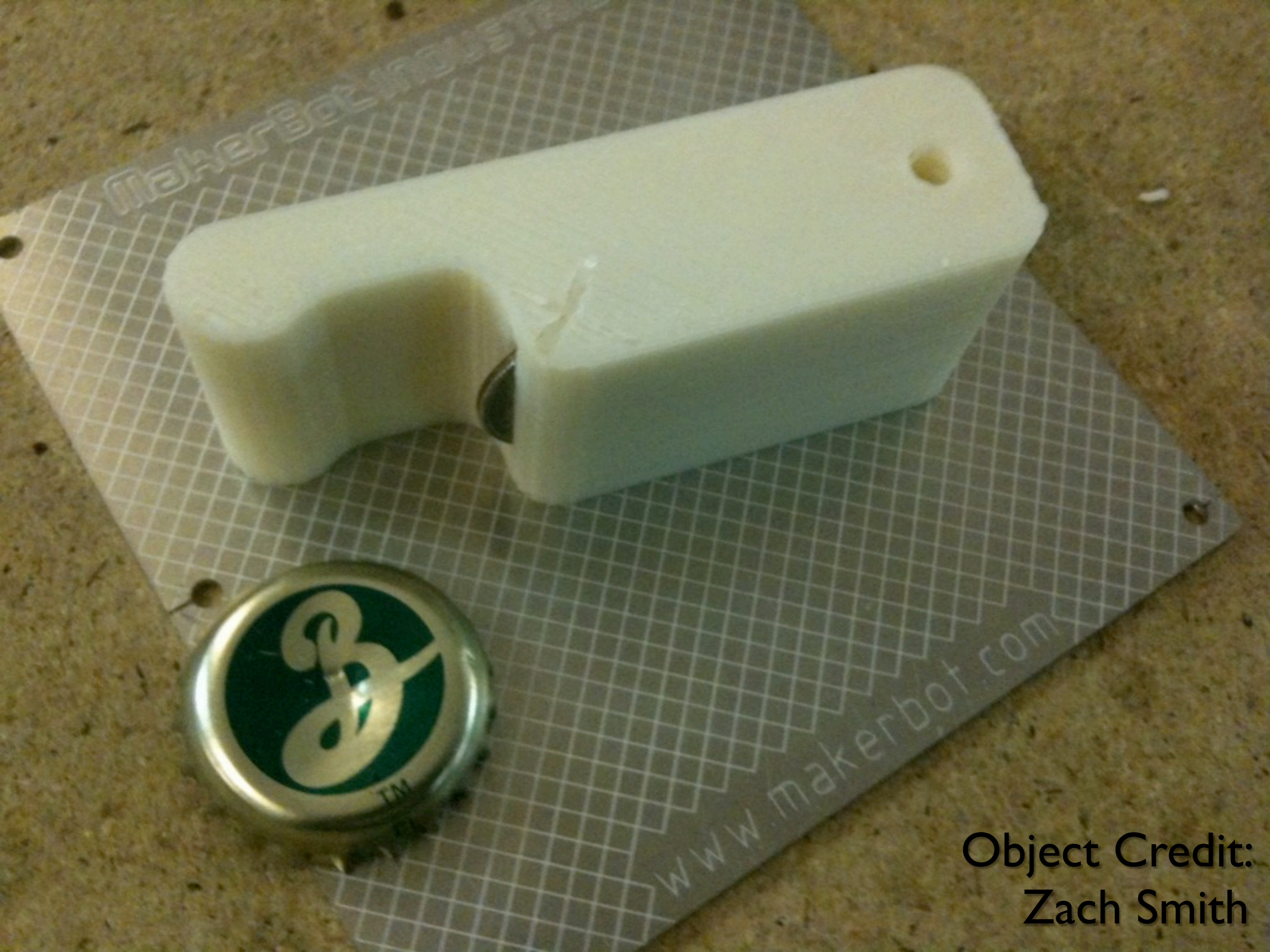
Thingiverse Blog

Recent Posts

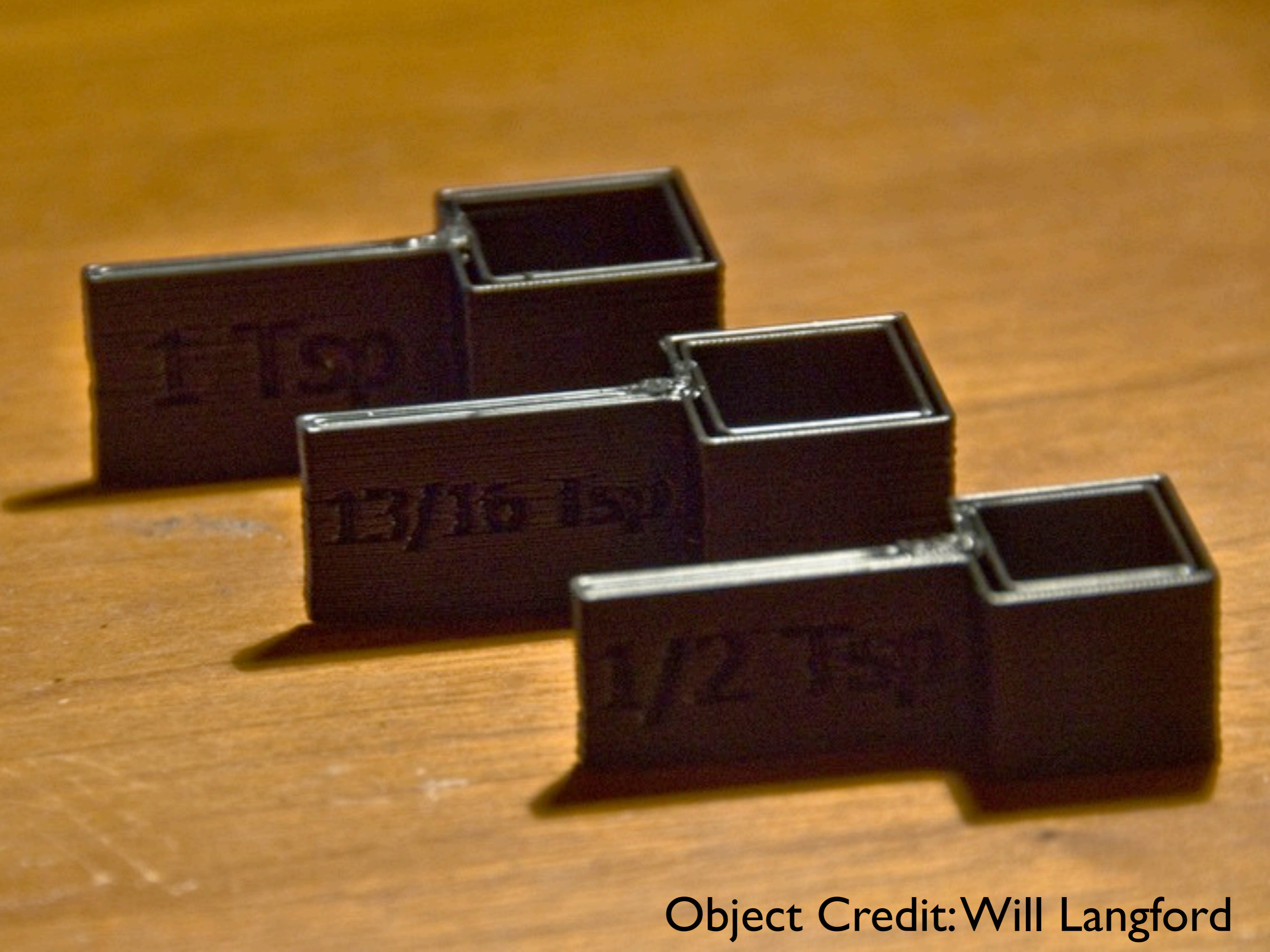
[Thingiverse Prep Work](#)



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



Object Credit:
Zach Smith



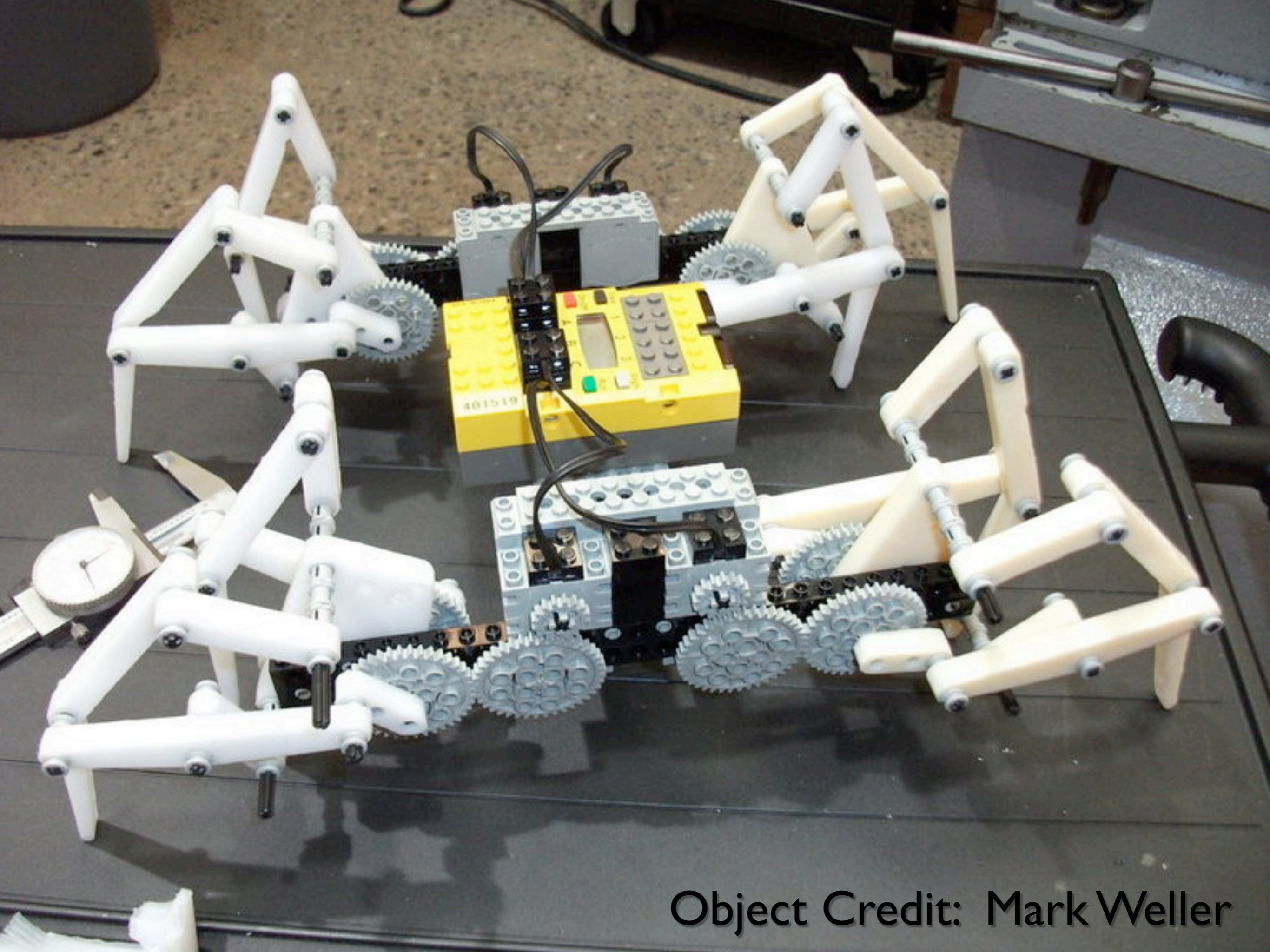
Object Credit: Will Langford



Yashica-D

Yashica-D

By Will Langford



Object Credit: Mark Weller





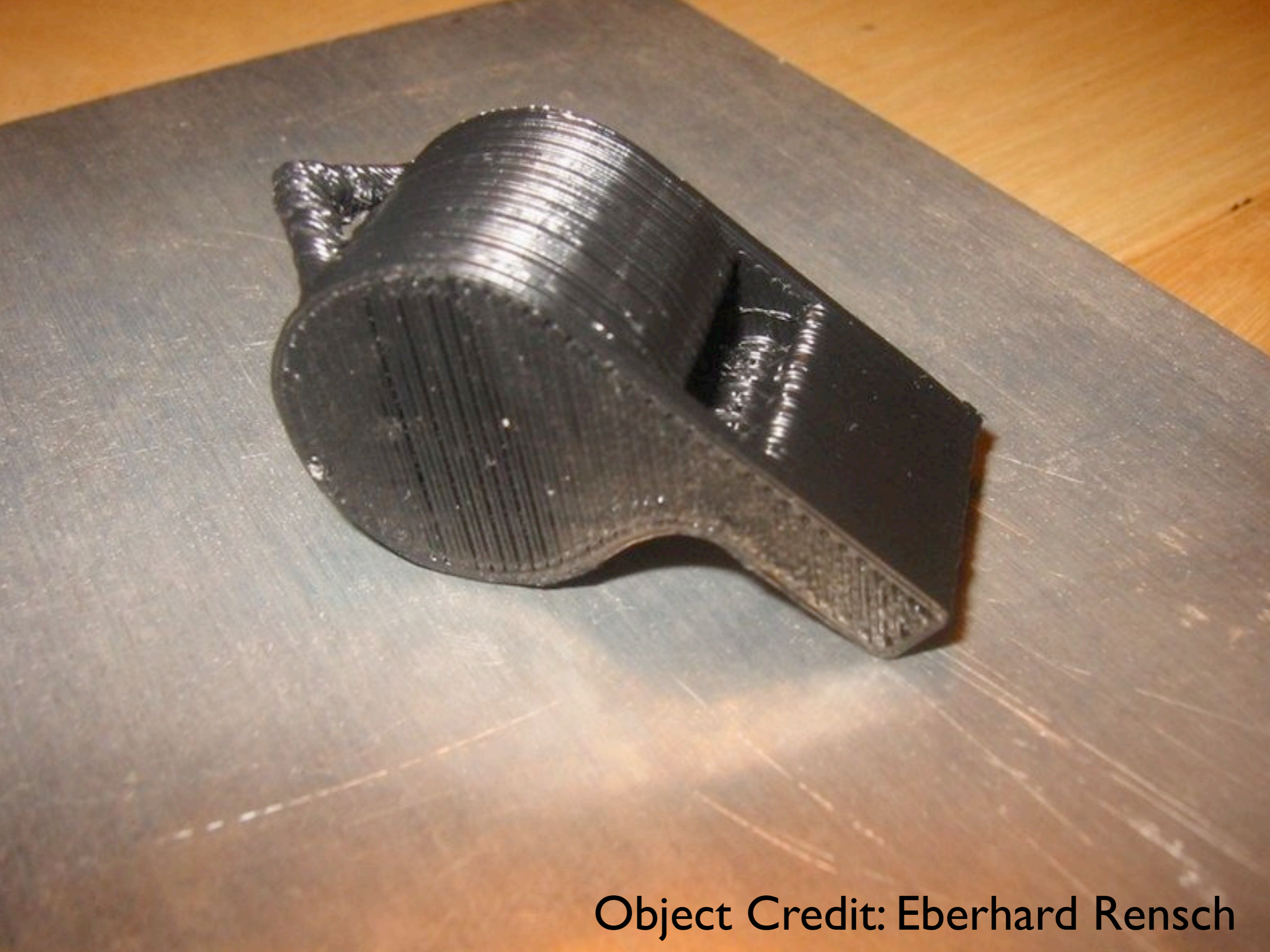
Object Credit:
Dominic Muren

Derivative Credit: Nate True

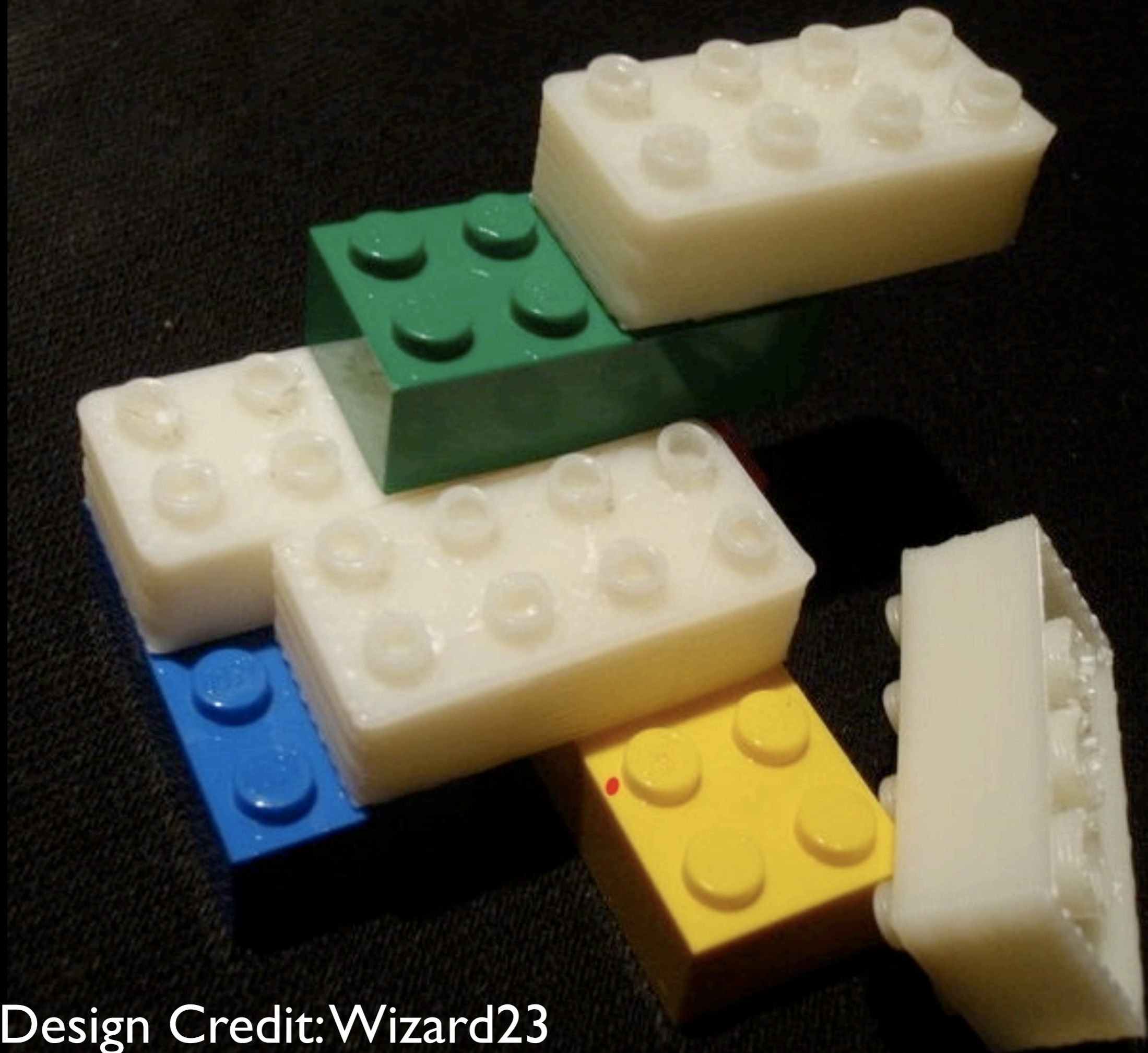




Object Credit: Owen Collins



Object Credit: Eberhard Rensch



Design Credit: Wizard23

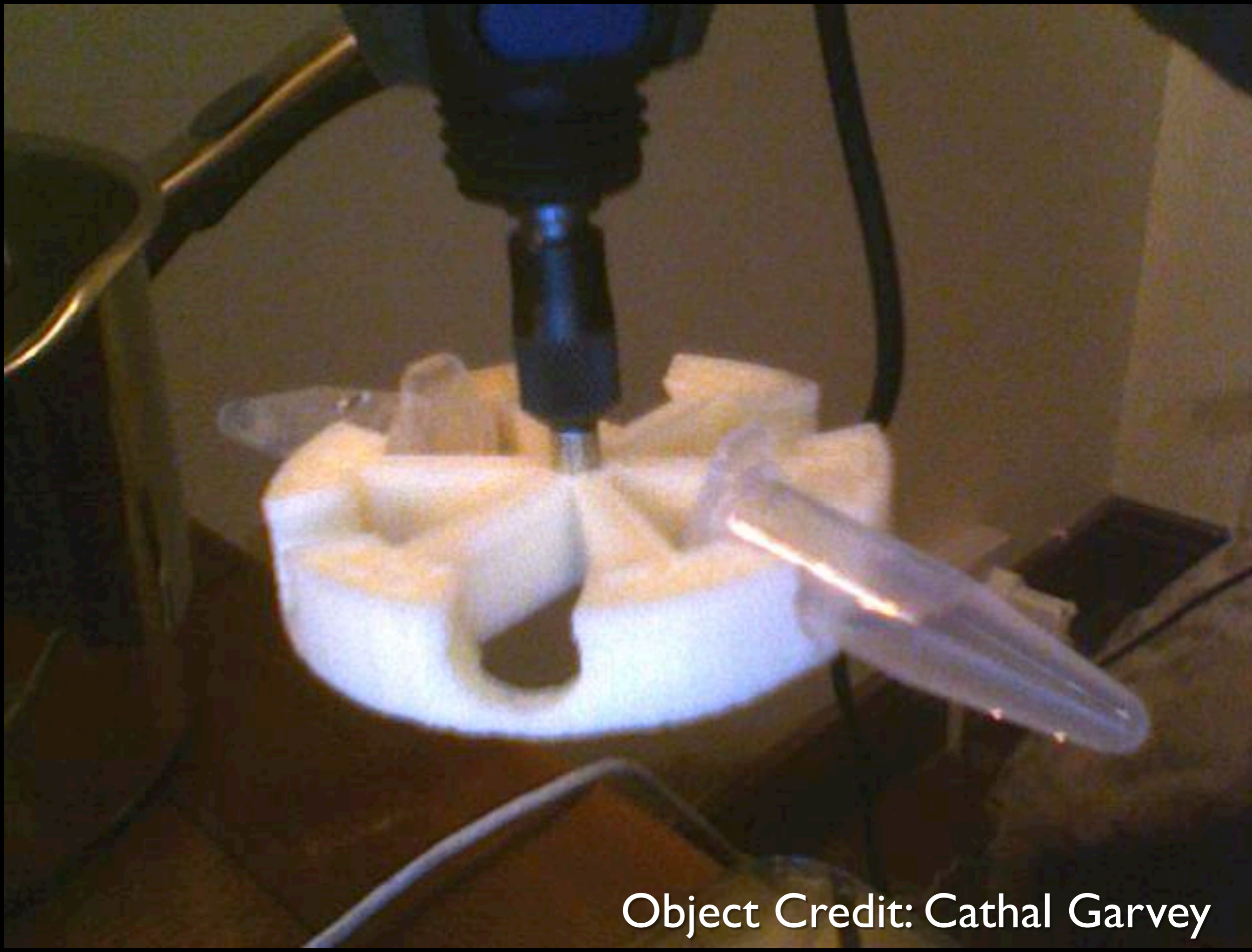


Collaboration between R3becca, Nate True and MakerBlock

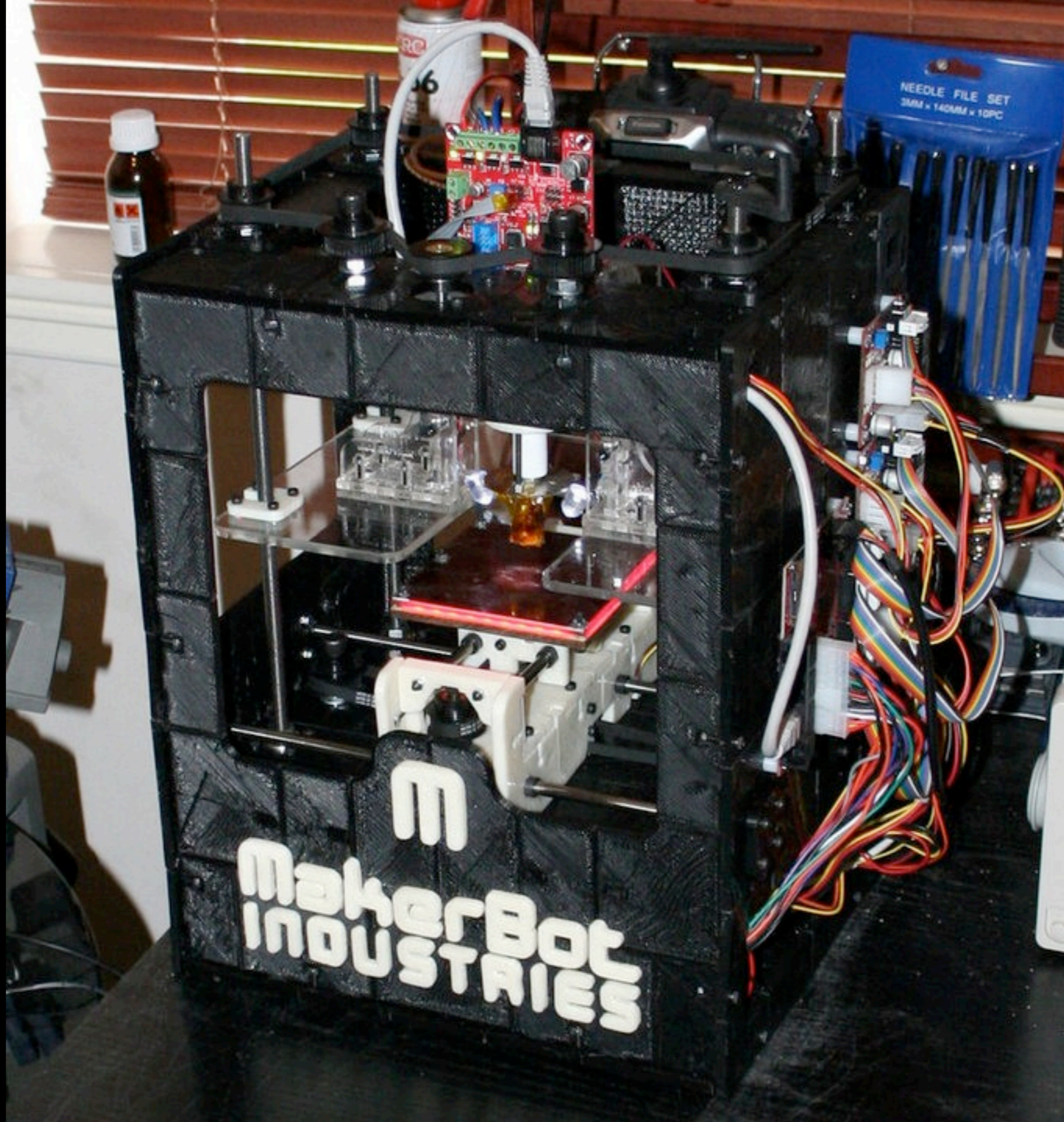
Replacement parts!



Design Credit: wizard23



Object Credit: Cathal Garvey



Object Credit: Webca



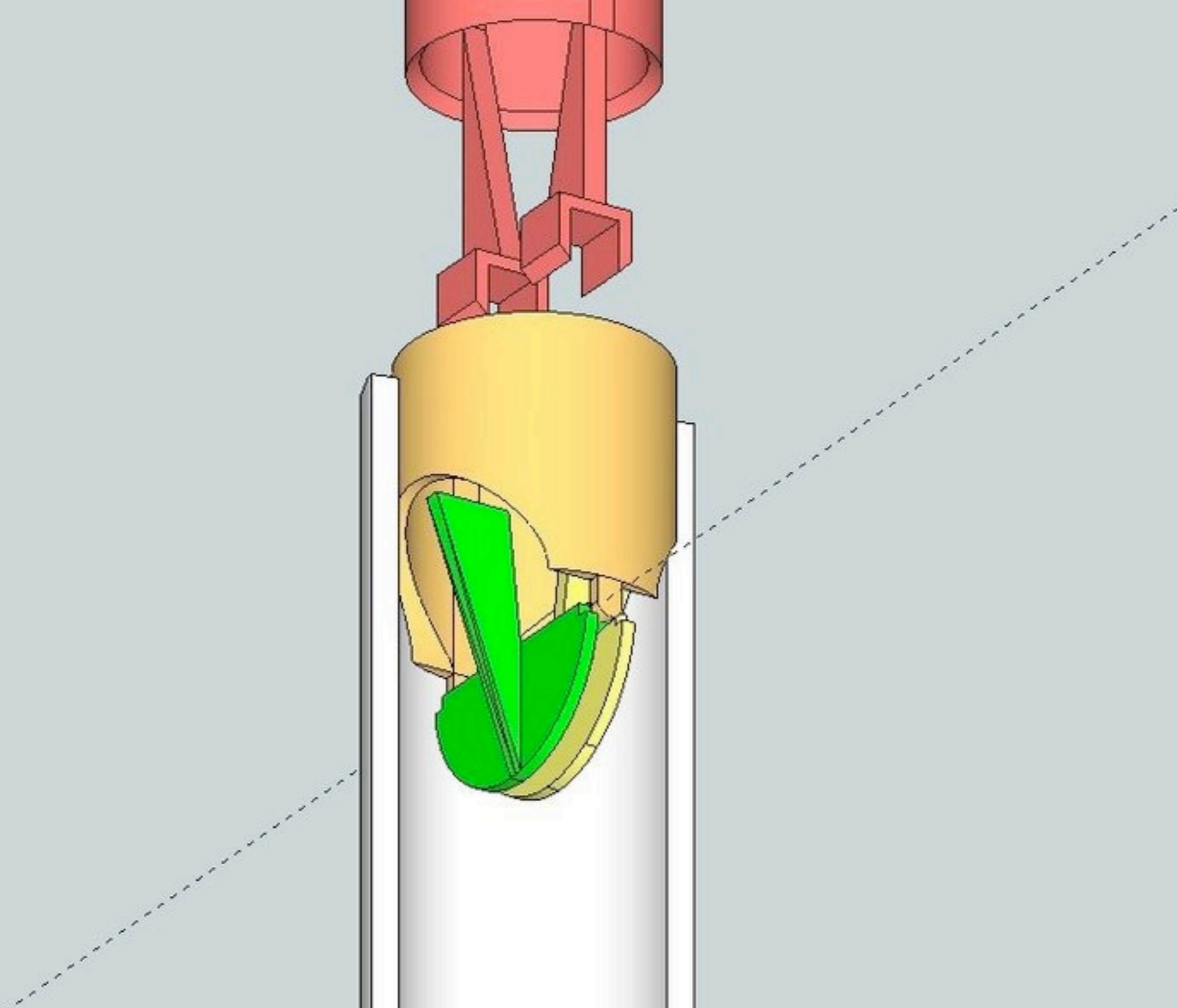
Object Credit: dmatsumoto



Object Credit: Junior Tan



THE HEART OF
RIGHT OF





Object Credit: bpijls

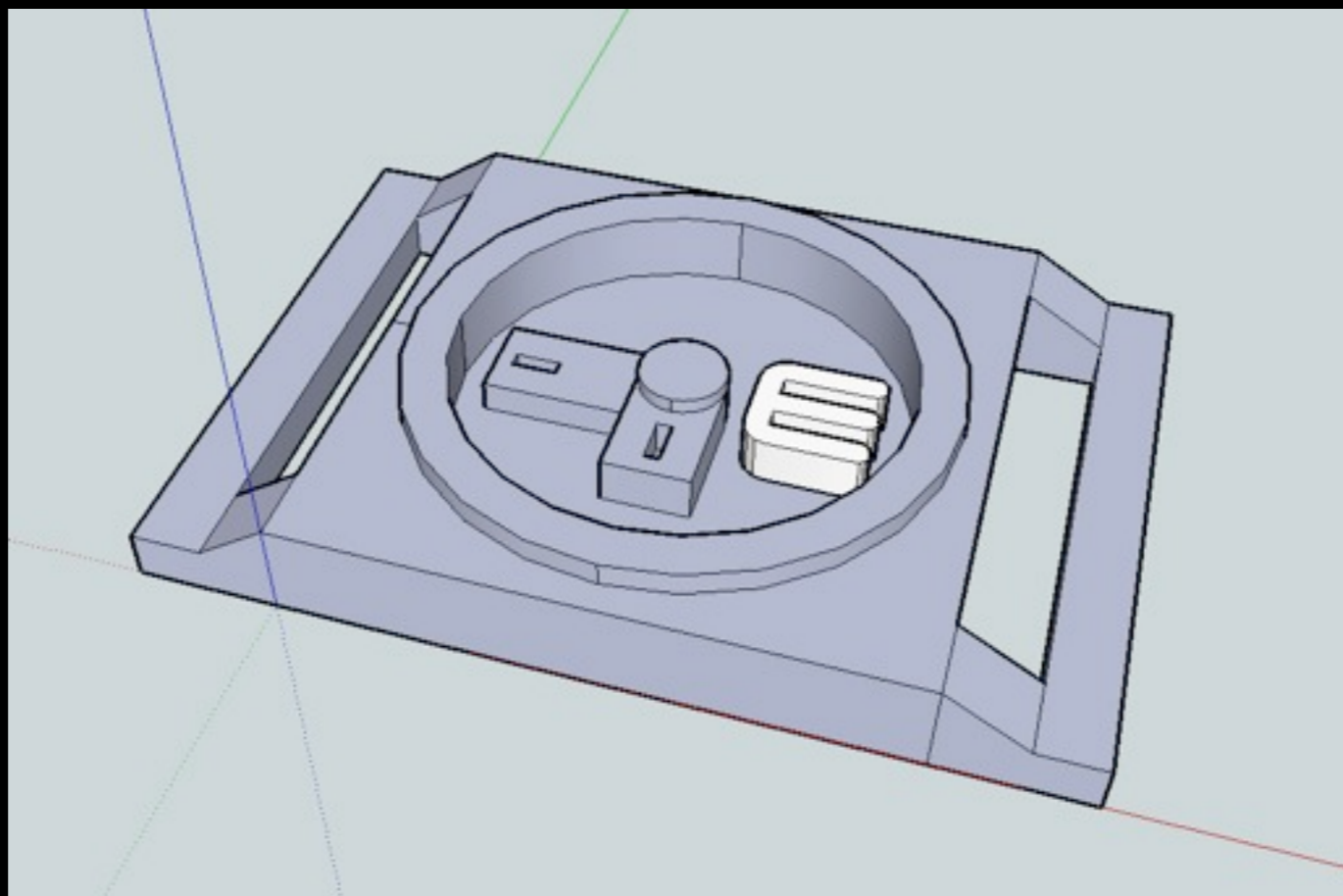


Object Credit: jmillerid



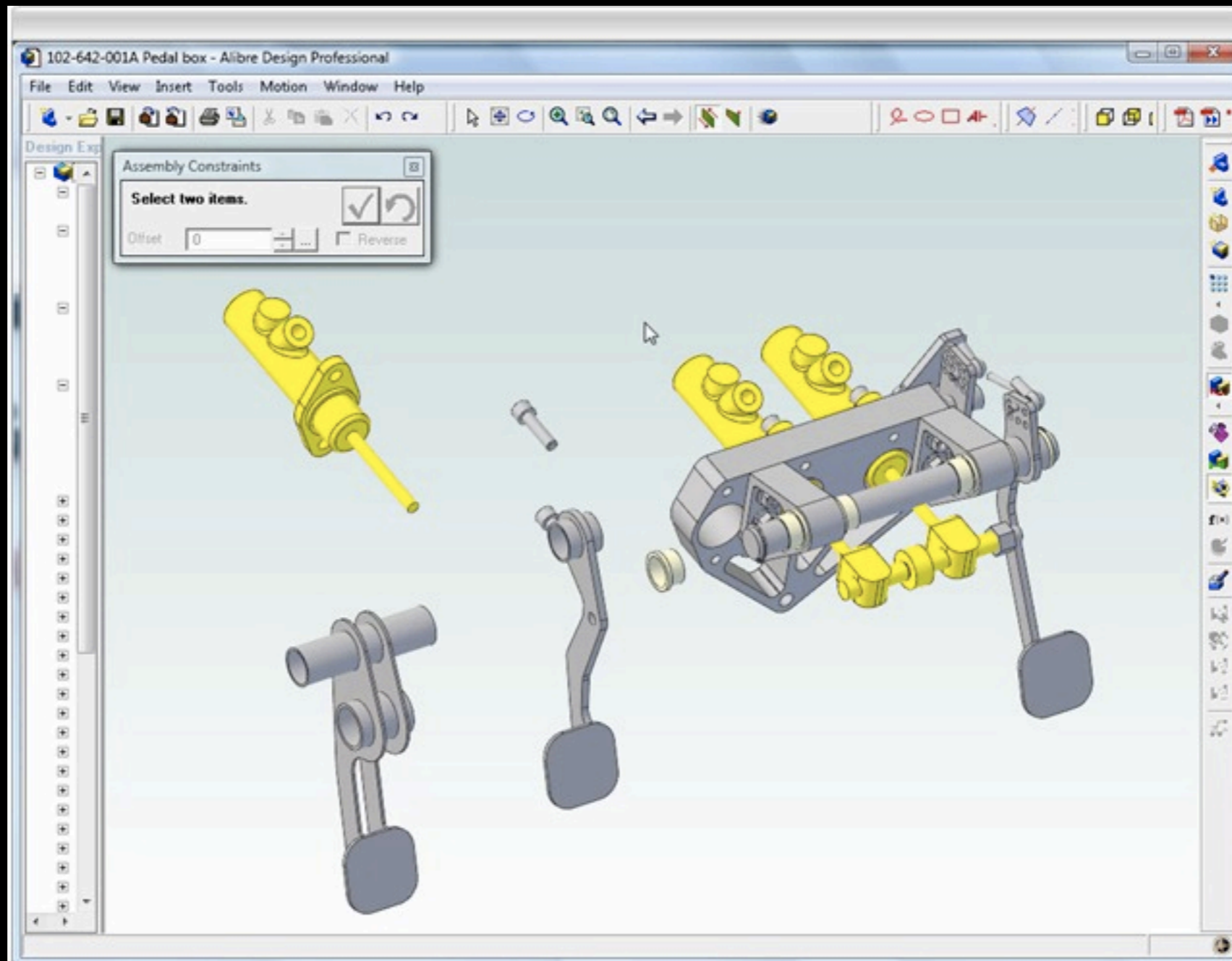
Object Credit: Adam Elkins

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

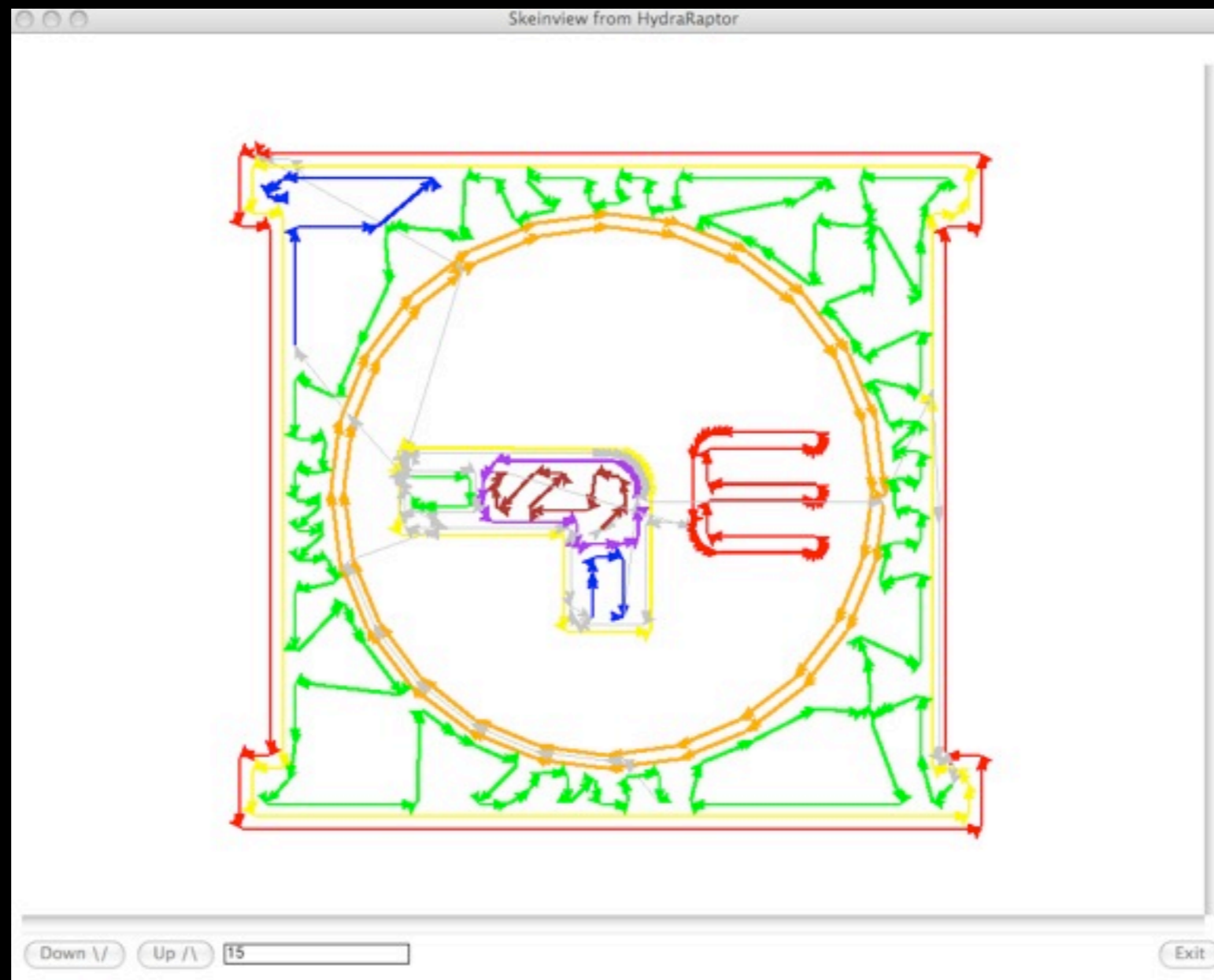


Free and/or Open Source
Modelling software!
OpenSCAD, Sketchup, Blender,
Art of illusion, and more.

Some programs are not free



Alibre, AutoCAD, Inventor, Solidworks



Once you have the design you slice it with skeinforge

The image shows a screenshot of the ReplicatorG software interface. On the left is the 'Control Panel' with 'Jog Controls' including buttons for X-, Zero, X+, Y+, Y-, Z+, and Z-. It also features sliders for XY Feedrate (480 mm/min) and Z Feedrate (100 mm/min), and a 'Pinch Wheel Extruder v1.1' section with fields for Motor Speed, Motor Control (reverse, stop, forward), Target Temperature (220), Current Temperature (0.0), and Cooling Fan (enable). On the right is the 'ReplicatorG - 0003' window showing a G-code file named 'dodecohedron_scaled_again_export'. The G-code contains 18 lines of G1 commands with X, Y, Z coordinates and a feedrate of F1440.0. A red arrow points to the '220' in the Target Temperature field. A red text box at the bottom of the screenshot reads: 'In ReplicatorG, I like to test all the directions and heat the nozzle up'.

ReplicatorG

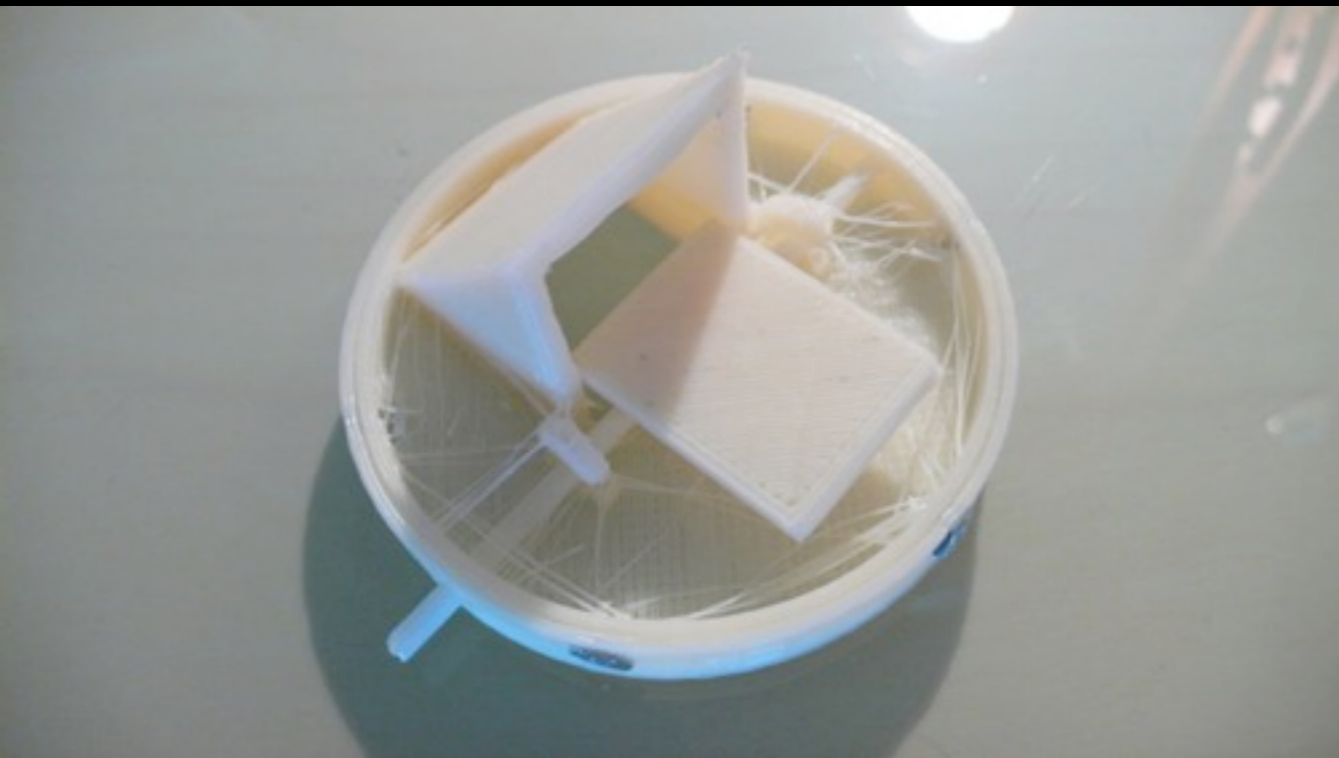


Print it!





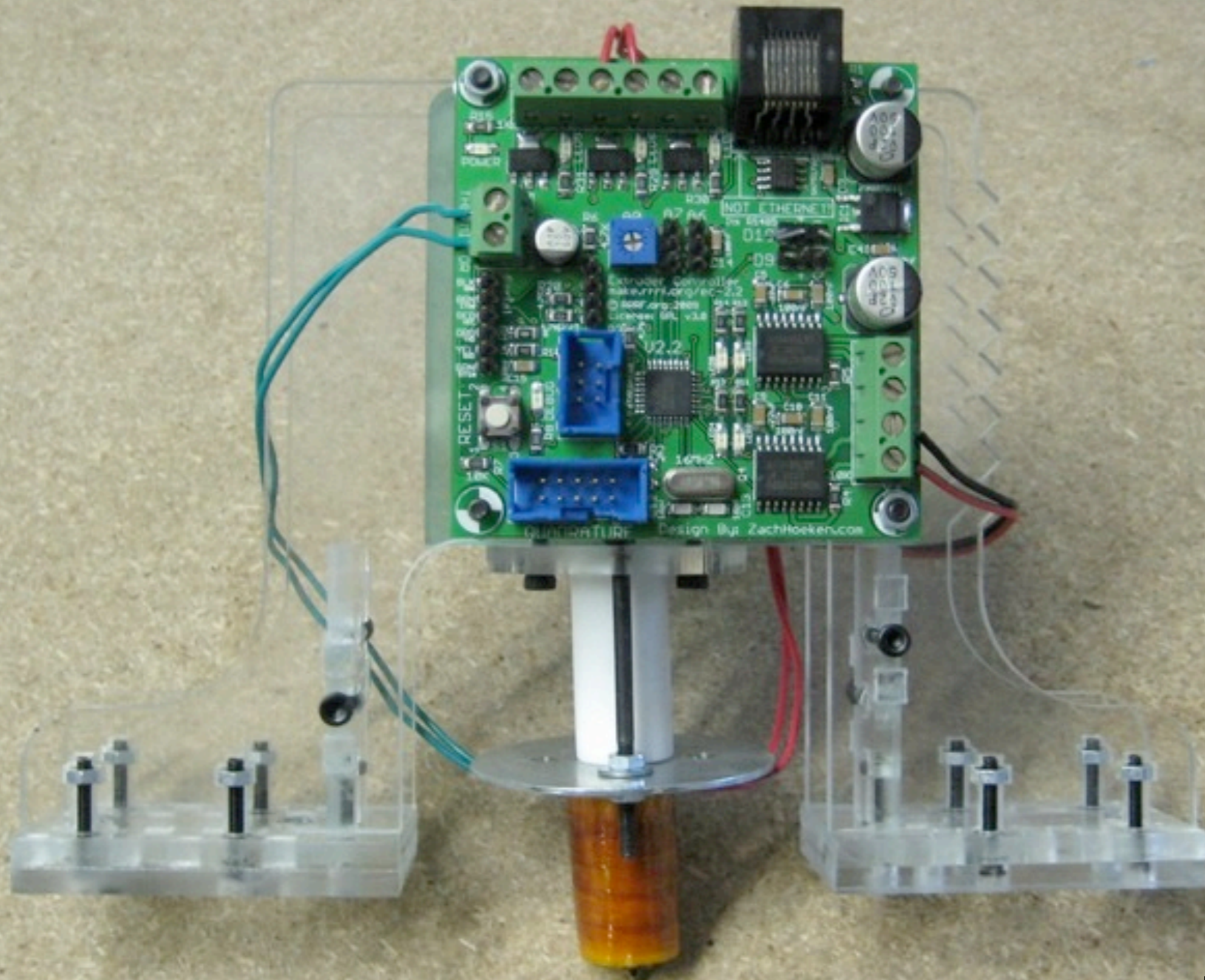
Cathal Garvey had a mouse problem.



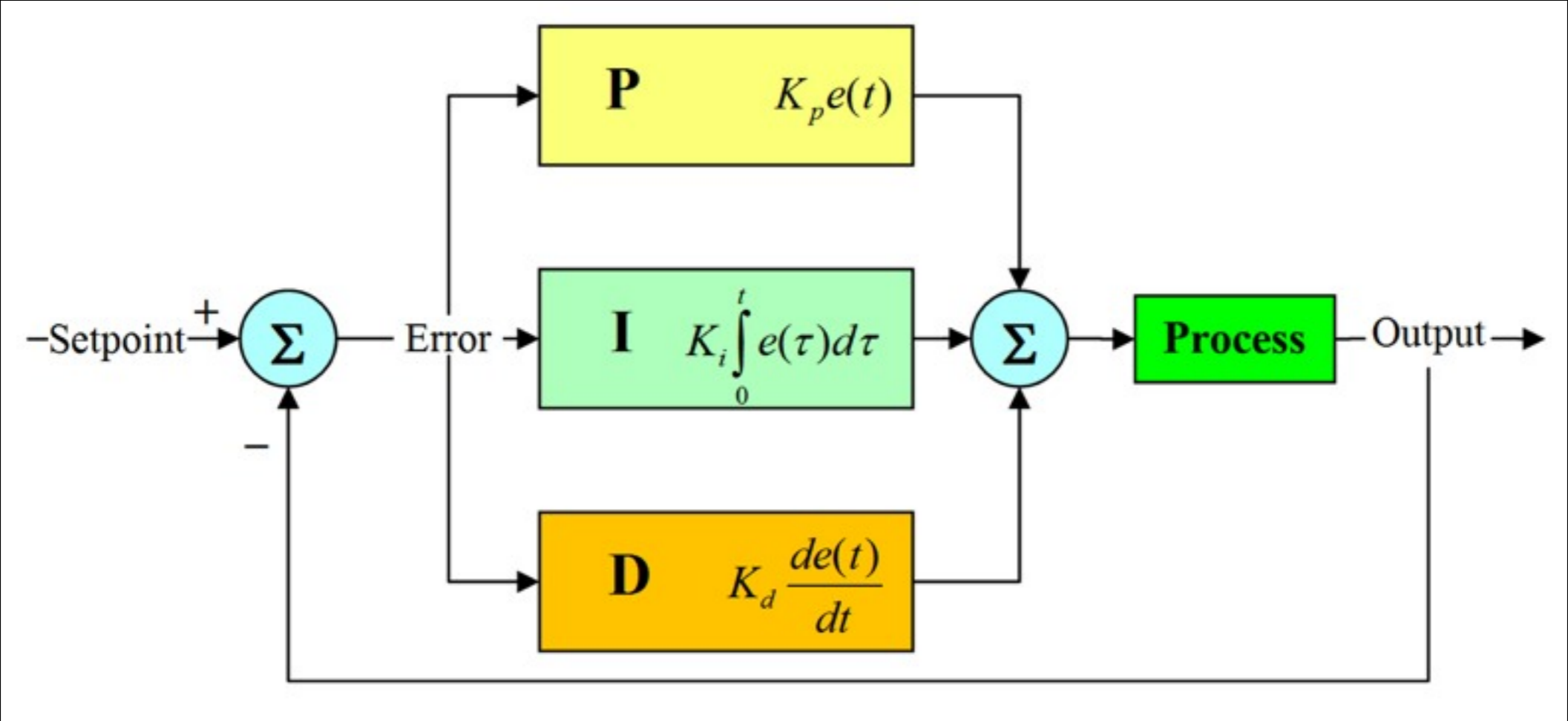
He crowdsourced eleven solutions

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

MakerBot MK4 Plastruder



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



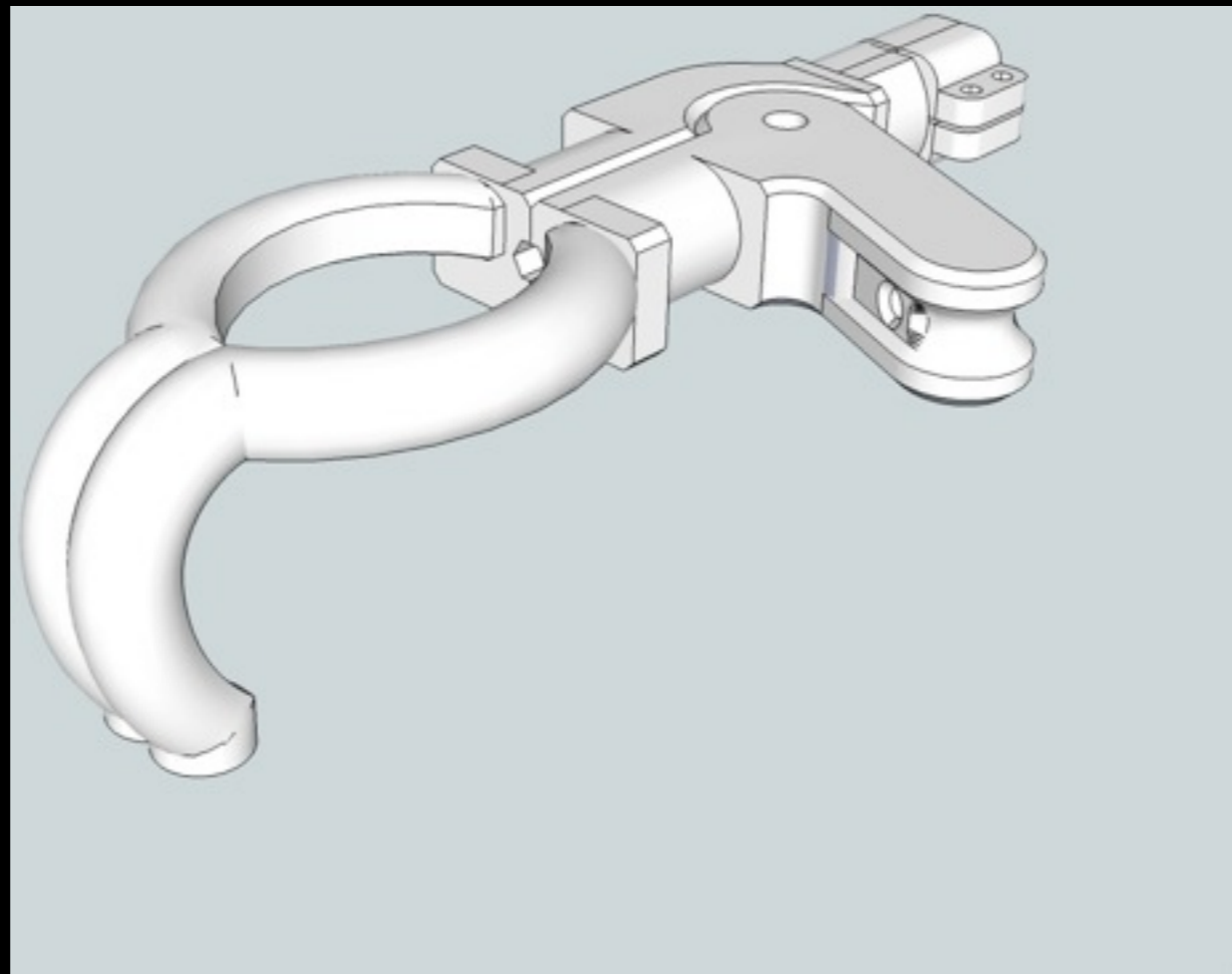
Some things to think about:

Abundance, and Sharing

Customization VS Mass Manufacturing

Personalized VS Branded

Beginning.

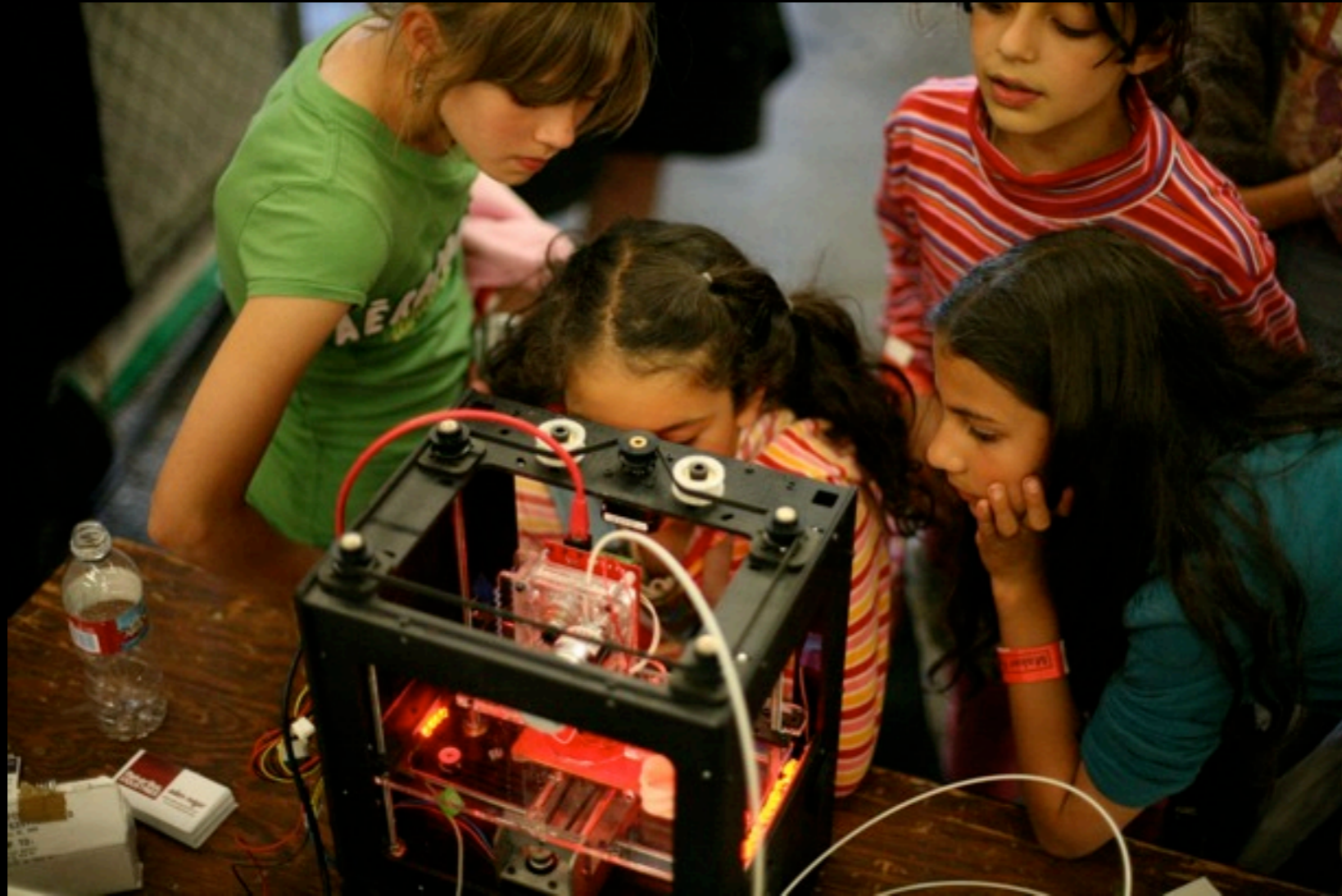


Frontiers: organs, investment casting,
syringe-ables and all sorts of THINGS
(The nearly possible is tangible)

Trautman Hook - Open Prosthetics Project
Object Credit: spedzero

MakerBot Basics

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



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

@MakerBot - @Thingiverse - @Bre

