



Why can't designing and producing physical products require nothing but your ingenuity, a laptop, and an internet connection?

**It can, now.**

Welcome to Wikifactory.  
Welcome to **The Internet of Production.**

WIKIFACTORY




# The Idea

A social and collaborative platform for **designing and producing physical things** - a “Github for hardware”. A single workspace for you to design better, prototype faster and manufacture smarter.

We call it the **Internet of Production (IoP)**.

Bill of Materials



Mechanics

- 1x [IKEA Tertial Lamp](#)
- 1x [10mm x 2m Braided cable sheath](#)
- 4x [Cable ties](#)
- 6x [M2 x 4mm Self tapping screws](#)
- 3x [M2.2 x 8mm Self tapping screws](#)
- 5x [M3 x 20mm Self tapping screws](#)
- 2x [M4 8mm Thumb screws](#)
- 2x [M4 10mm Threaded inserts](#)

Electronics

- 1x [U0 Smart Beam Projector](#)
- 1x [Raspberry Pi 3 Model B](#)
- 1x [Raspberry Pi V2 Camera](#) (optional)

Open Issues

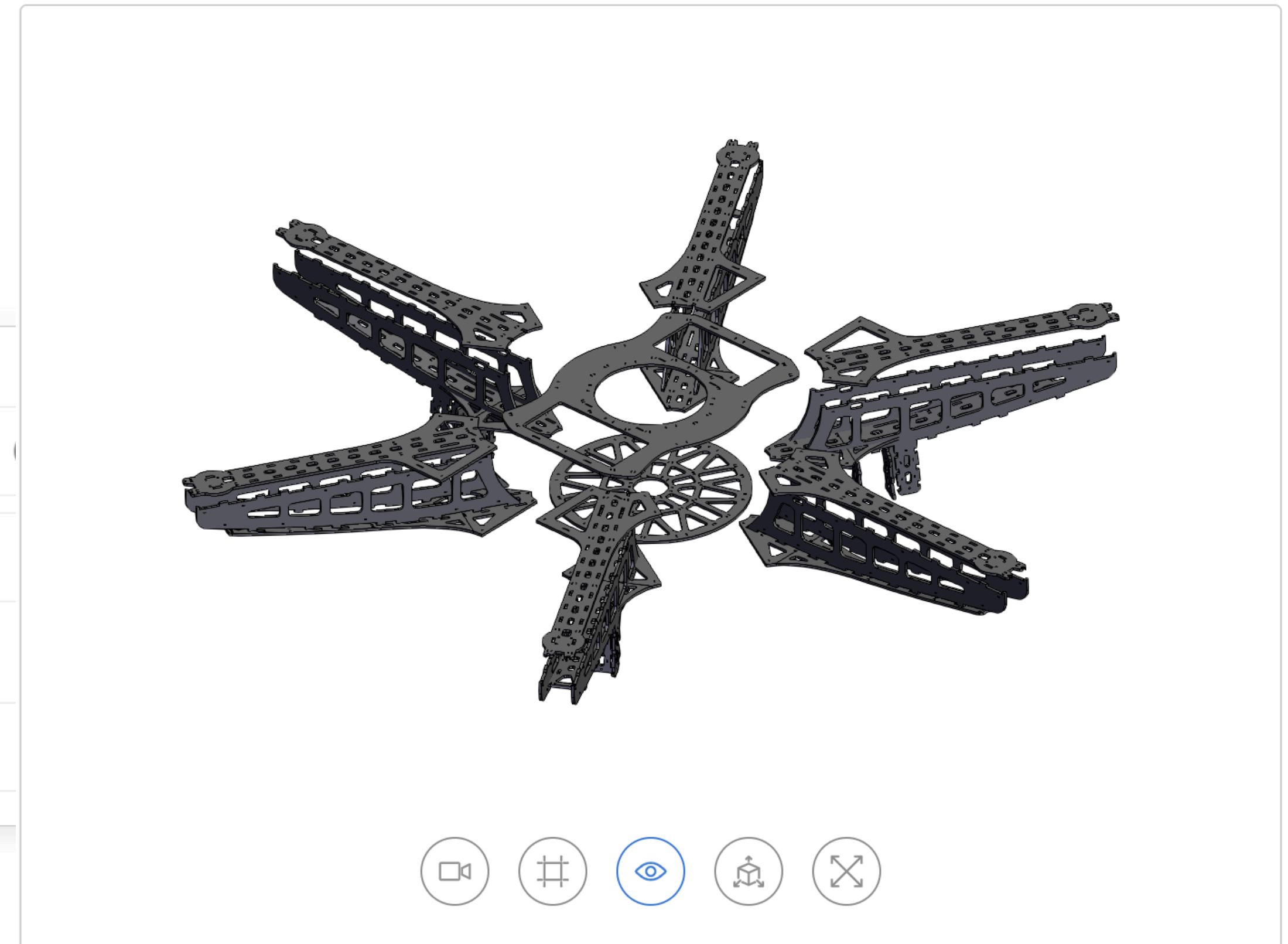
- [Viable to 3d print lenses in SLA rather than CNC out of acrylic?](#) Question  
#2 opened by [@mkampik](#) | 20 Sep 2018 | [4 comments](#)
- [Identify international suppliers for standardised components](#) In Progress  
#1 opened by [@mkampik](#) | 20 Sep 2018 | [Discuss](#)

Closed Issues

- [Get quote for CNC'ed acrylic lenses](#) Manufacturing  
#1 opened by [@salfield](#) | 20 Sep 2018 | [Discuss](#)

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(Product Documentation, and Project management)



(Web based 3D Viewer)

# A fast growing community based on collaboration

After launching our BETA in mid 2019, Wikifactory's **community of makers, designers, engineers, technologists and other creative problem solvers** is now 25K strong - **set to reach 100K by the end of the year.**




**Joana Schmitz**  
[@joana](#)  
additive artist from berlin

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**Camilo Parra Palacio**  
[@cparrapa](#)  
Product Designer Engineer. Founder of OttoDIY, A 3D printable opensource robot than anyone can build, Making #STEAM education and robotics accesible to all.

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**Harry Akligoh**  
[@diyharry](#)  
DIY bio tinkerer and researcher exploring the use of openness in the life sciences

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**Frederik Lean**  
[@frederiklean](#)  
Startup dude bitten by a green leaf

+ Follow



**Enrico Bassi**  
[@eb](#)  
Maker, digital fabrication's professor, Fab Academy instructor and Fab Lab coordinator (@Opendot in Milan).

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**Shaoting Lin**  
[@ting](#)  
Operational engineer. Active in hardware and software engineering.also a researcher with experience on wirelessly connected embedded systems and PCB.

+ Follow



# A go-to place for open hardware design and production

With over 1600 open hardware projects, and over 10K 3D files uploaded, our community is working in all sorts of industries. **From robotics, drones and electric vehicles, to biotech, agri-tech, smart furniture - and most recently - medical devices.**




**+holybro/px4-vision**  
Quad-rotor frame autonomous drone development k...

13 16




**+fablabbudapest/ldv-desk**  
The structure of the LDV DESK table consists of com...

3 2



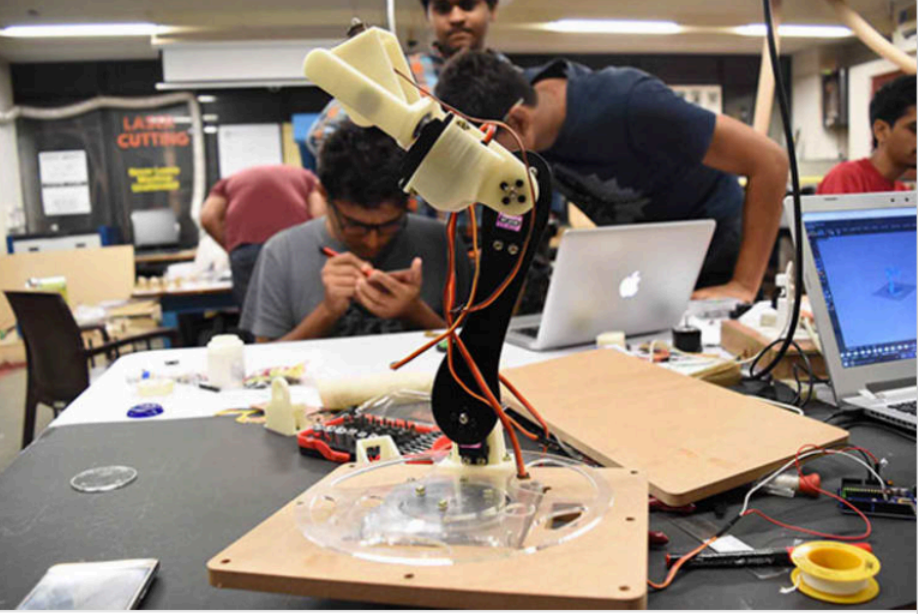
**@joaoleao/pet-mini-skateboard**  
PET MINI Skateboard is a Open Source, Recycled EI...

16 7




**+growstack/nextfood-aeroponics-3b**  
This is the 3B version (Bare Bones Build) of the Nextf...

206 7



**@avishek/krab-v10**  
Krab is a small 6-axis robotic arm controlled from Rhi...

26 14




**+fablabbcn/smart-citizen-kit**  
An Open-Source Environmental Monitoring Platform ...

52 12




**+wikifactory/tabby-evo**  
TABBY EVO is a hardware open source platform for ...

2 2



**@adammiklosidesign/simple-face-shield**  
Ultra simple and cheap face shield for the Covid-19 c...

18 15



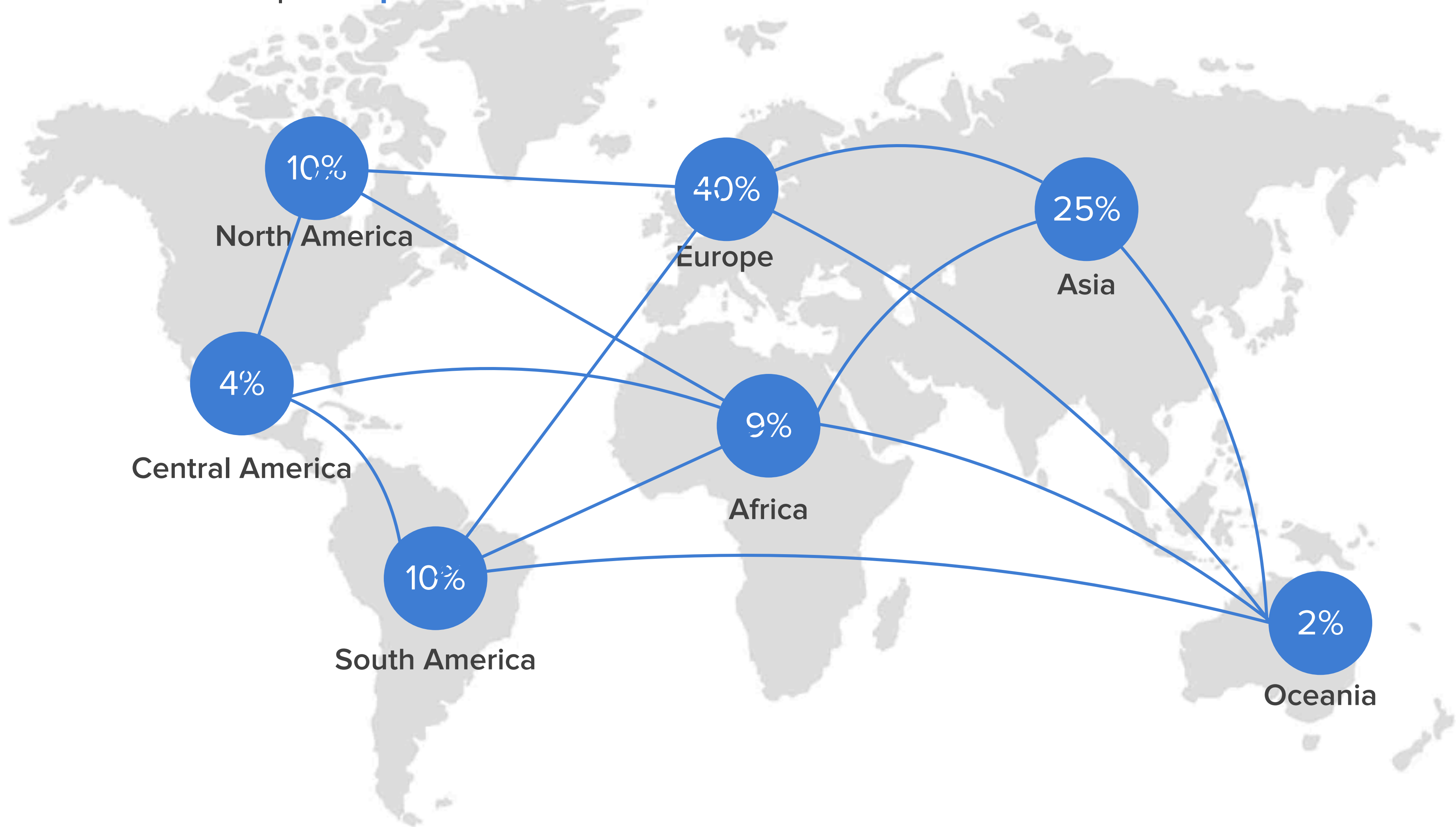
**@max/lantern**  
An Ikea hack by Nord Projects that transforms any su...

30 10



# A global collaboration movement on the rise

Collaboration happens **across all continents and timezones** - 187 countries to be precise, with some product teams made up of **up to 450 contributors**.



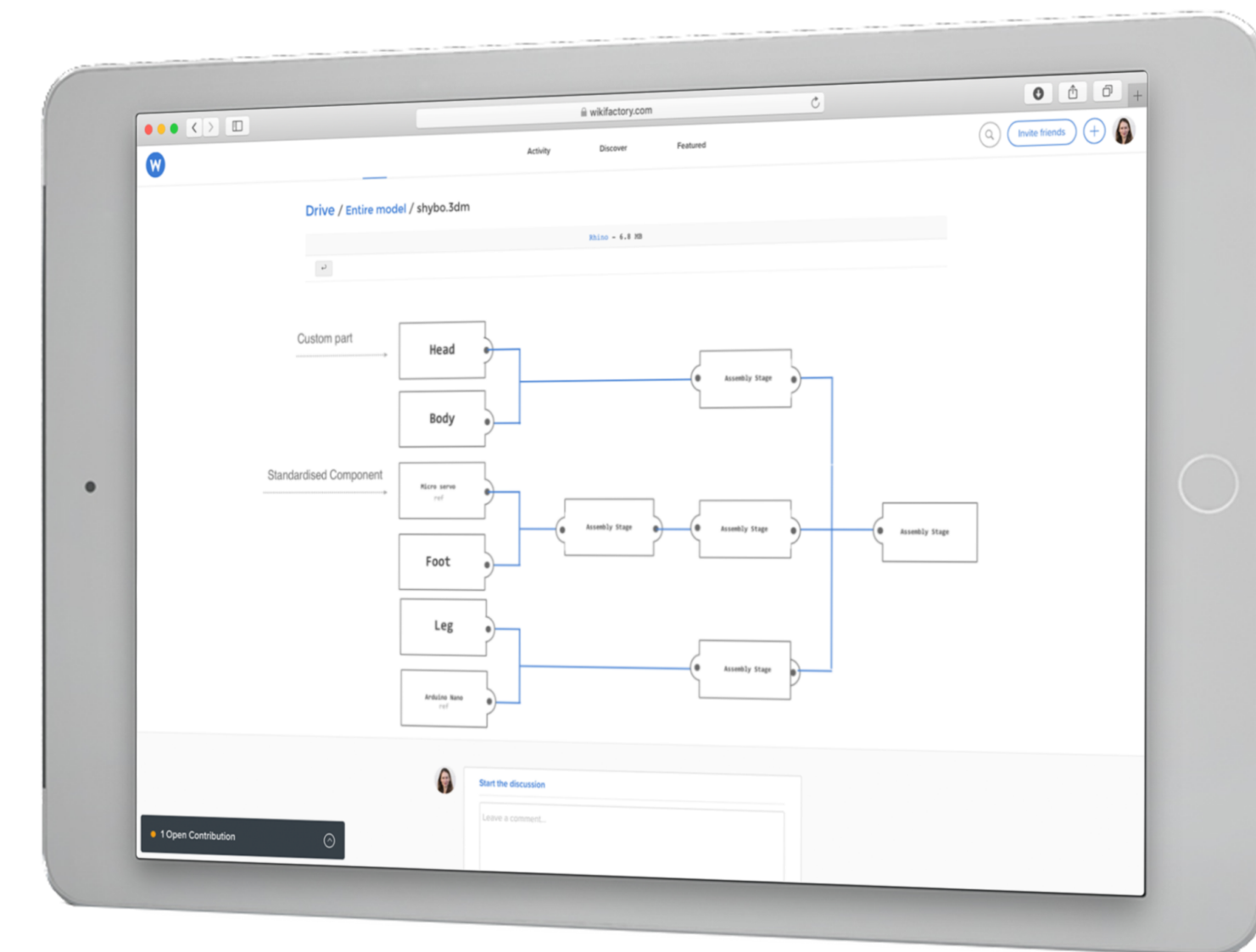


# Wikifactory 2.0

Having created a **collaborative product development platform**, we have now begun to extend it with a **design-to-production system** and distributed **on-demand manufacturing**, in a **single, seamless workflow**.



**Compose design-to-production software services** (in-house and 3rd-party) in a **flow-based visual programming** environment.



**Define and manage complex production processes** including sourcing, part manufacture, and assembly.



# The Internet of Production (IoP)

“Linking the productive capacity of smart manufacturing with the creative potential of people.”

The **Internet of Production** is the emerging concept of a distributed, interoperable, **open** standards-based system linking together **product definitions, software services, and manufacturing-as-a-service (MaaS)**.

We have designed **one online workflow for product development** composed of:

1. Collaborative product development tools
2. Design-to-production systems, and
3. On-demand manufacturing services

Engineering and manufacturing corporations are investing in intelligent, data-driven manufacturing - **Industry 4.0**

VS

Wikifactory is opening up the **same capabilities to everybody** by creating the world's first **IoP platform**.



**Collaborate. Design. Prototype. Manufacture.**  
**All from one workspace.**



# Never ask, “Is this the latest?” again.

## Version Control

The screenshot shows a cloud storage interface with a file list and a history log. The file list has columns for Name, Last Contribution, and Last Modified / Actions. The history log shows recent changes with user avatars, commit hashes, and descriptions.

Name	Last Contribution	Last Modified / Actions
Assembly	Add assembly (#6cbf669)	4 hours ago
Lenses SLA	Add files for SLA printing the Lenses. (#143f2dd)	4 Mar 2019
Manufacturing files	Rename to "Manufacturing files" for clarity (#029a2d3)	4 Mar 2019
license.txt	Create North Star Build and license it under Creative Commons Attribution 4.0. (#c2:	4 Mar 2019
README.md	Readme: add project background info and first dev log entry (#e98060a)	4 Mar 2019
		n/A

History (8)

- Added DA Lamp on Project inspiration  
#6e4f97d | contributed by @kevinphy | 3 May 2019
- Edit to Get Involved Section  
#66386e8 | contributed by @rebel | 24 Apr 2019
- Add more information to Readme and add Readme template  
#cf9e4a7 | contributed by @carolportugal | 22 Apr 2019


Added Files (1)  
CAD/OttoDIY+\_CUSTOM.scad

Removed Files (1)  
3D Printing/OttoDIY+\_foot\_v06.stl

Renamed Files 3  
3D Printing/OttoDIY+\_foot.stl

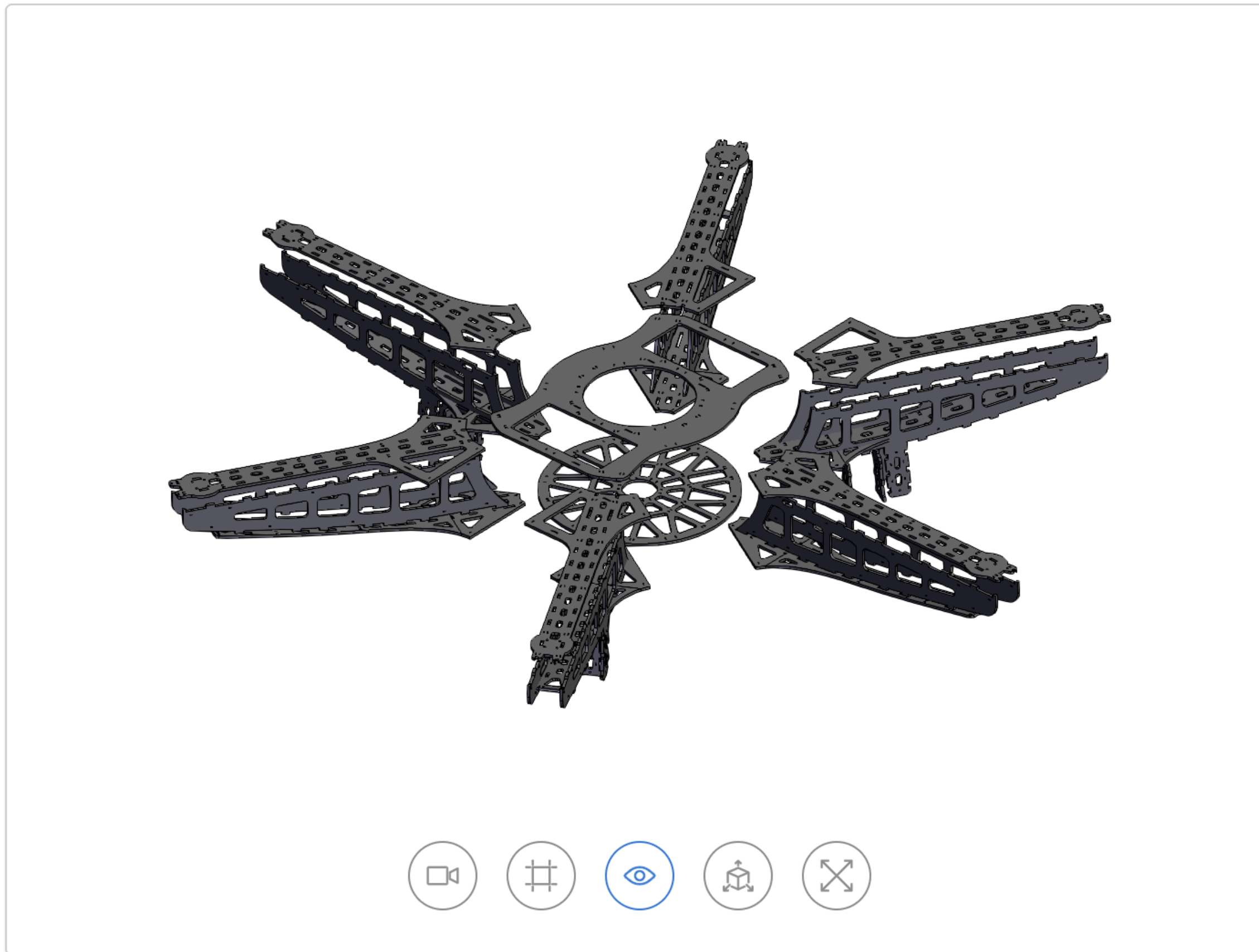
- ✓ Securely store your files in the cloud.
- ✓ Easily access or restore older versions.
- ✓ Track & manage changes to your product data.
- ✓ More transparent development processes.
- ✓ Know what changes were made, when and why.
- ✓ Spend less time enforcing conventions.

*It's powerful version control made intuitive for product designers.*

 **Camilo Parra Palacio**  
Product Designer and founder of OttoDIY

# CAD for anyone, from anywhere.

## 3D Visualisation



- ✓ Visualise over 30 formats in the browser.
- ✓ Inspect and explode assemblies.
- ✓ Keep expensive CAD licenses to a minimum.
- ✓ No install or plugins required.
- ✓ Runs on mobile and tablet.

*Sharing links to 3D files on Wikifactory is infinitely easier than worrying about file size restrictions in emails, and has made communication between our distributed teams a breeze.*



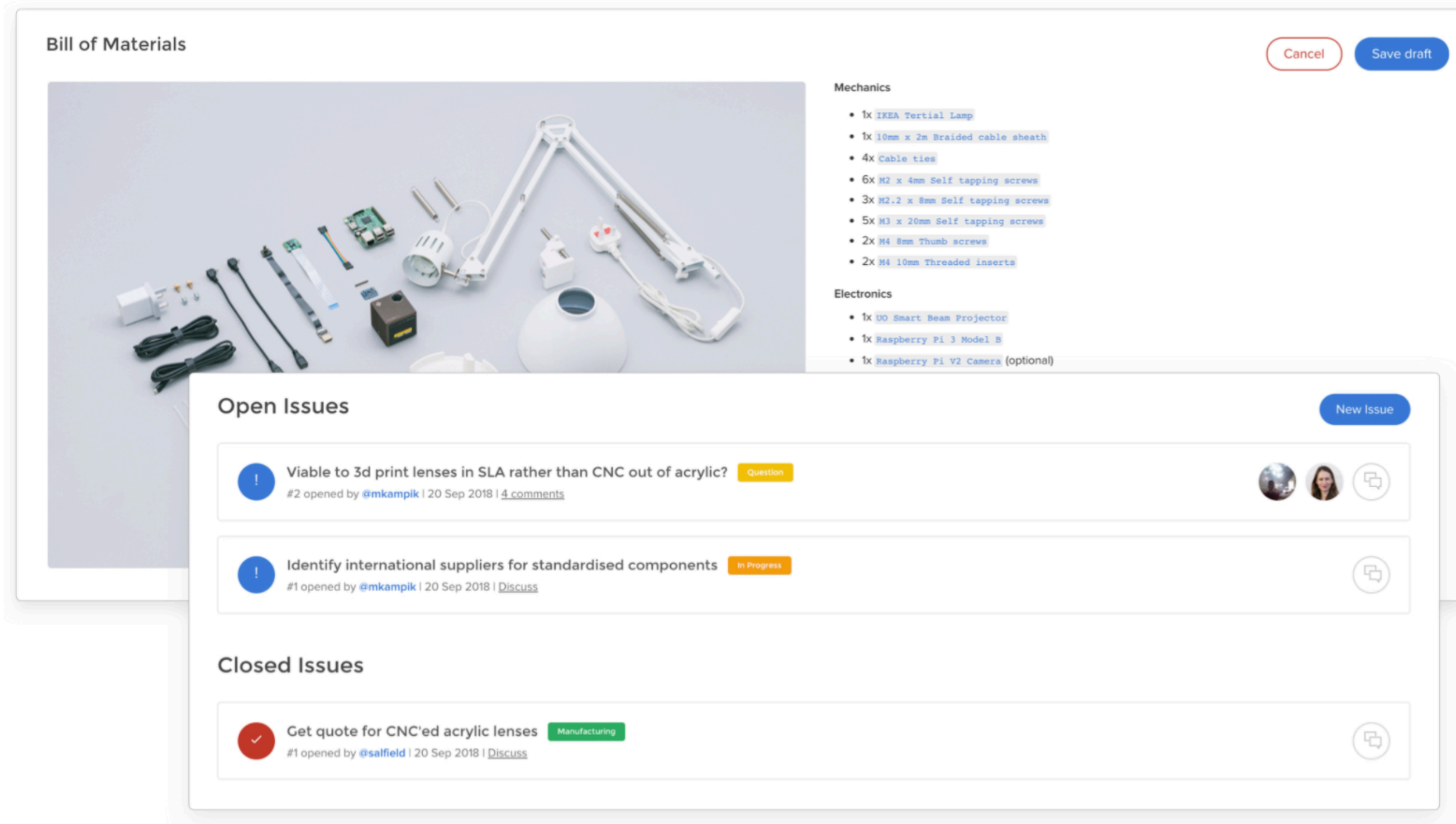
**Juan Laforga**

Head of Production & QA, Shadow Robot Company



# Iterate faster, be more agile.

## Issue Tracker & Documentation



**Bill of Materials**

Cancel Save draft

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**Open Issues** New Issue

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**Closed Issues**

- ✓ Get quote for CNC'ed acrylic lenses Manufacturing #1 opened by @salfield | 20 Sep 2018 | Discuss

- ✓ No more overly bureaucratic change requests.
- ✓ Move ideas forward by assigning tasks and labels.
- ✓ Find and fix issues faster, even on the go.
- ✓ Go beyond words, embed 3d models anywhere.
- ✓ Collaboratively improve and share your documentation.

*An exciting set of tools for teams to innovate and rapidly adapt their designs to the market.*

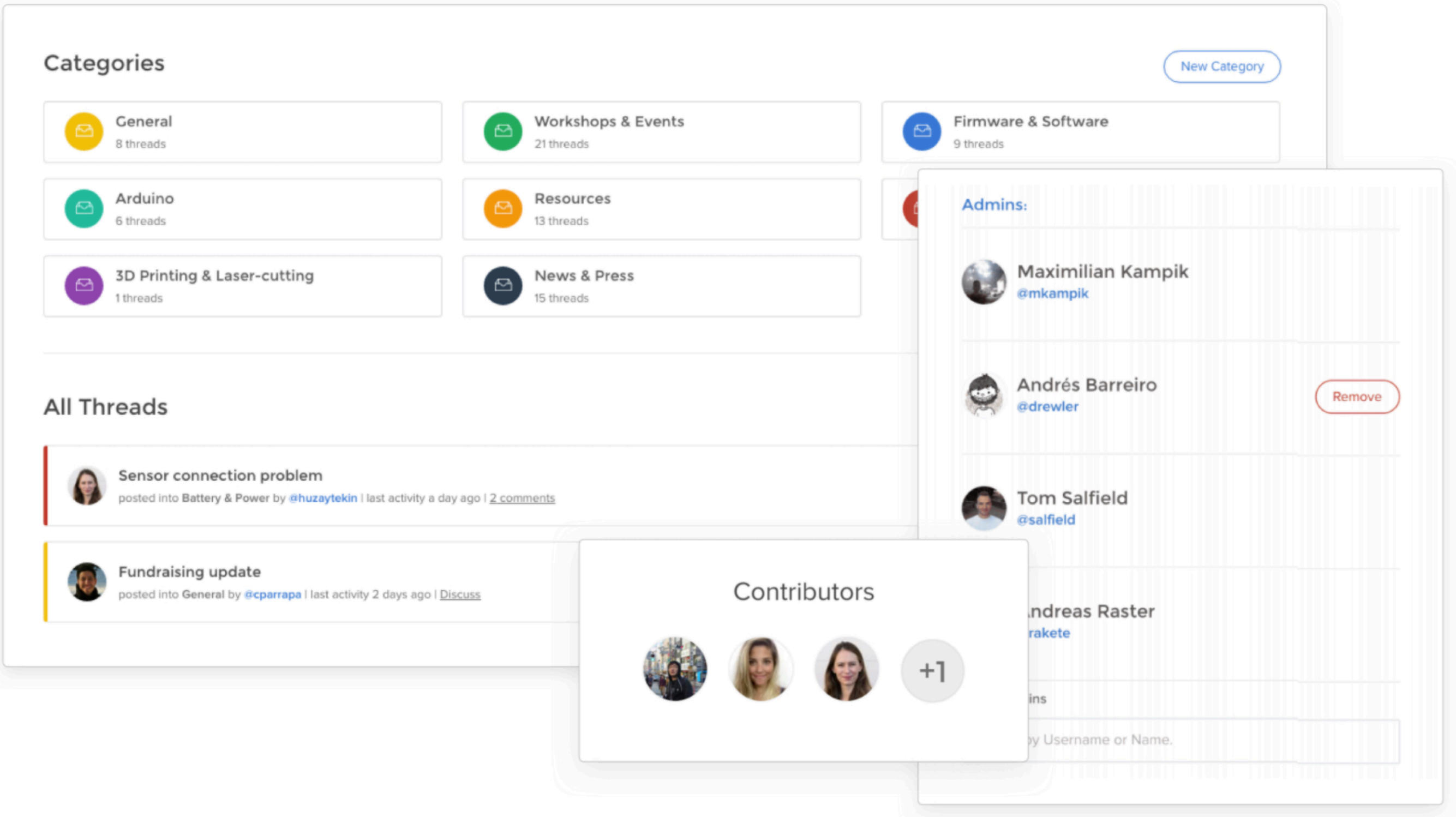


**Jens Martin Skibsted**

Founder of Biomega, Partner at Strategic Design Group


# Seamless collaboration with stakeholders

## Permission Systems and Community Tools



- ✓ Enable organisation-wide collaboration with role based permissions.
- ✓ Limit access where necessary and create a safe space for sensitive work.
- ✓ Tap into a wider community of talented product innovators.
- ✓ Build and grow a community around your brand.

*With Wikifactory we are able to collaborate more effectively with clients and manufacturers.*

 **Henk Werner**  
Founder of TroubleMakers, Shenzhen.



# WIKIFACTORY

The Future is in the Making™

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