

# **Shanghai Education Research Facility**

concept development

# **PROPOSED CONCEPT**

- A “FABLAB” digital technology centre where students and schools can learn about digital design, digital fabrication and the potential of these digital technologies in the economy of the future
- A “BLUEPRINT” / example for schools who wish to set up their own technology centre
- TRAINING on the software and technologies for schools, students and members of the public (via Xinfab)
- A design PROTOTYPING CENTER for pupils, teachers and designers in Shanghai, to promote digital design and local design capability

# PROPOSED CONTRIBUTORS



XINFAB, an MIT FabLab approved makerspace in Shanghai



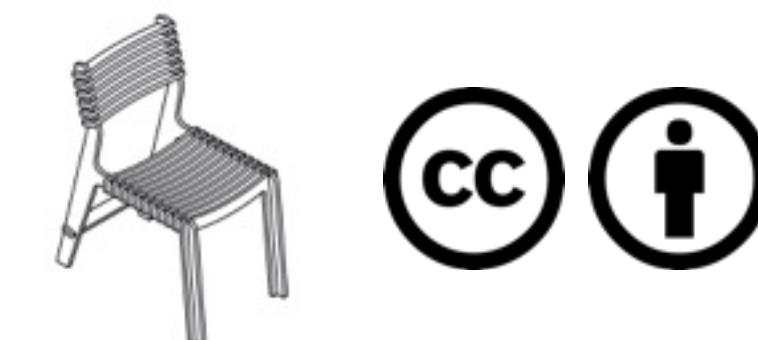
AUTODESK, the world's most popular 2D and 3D CAD software

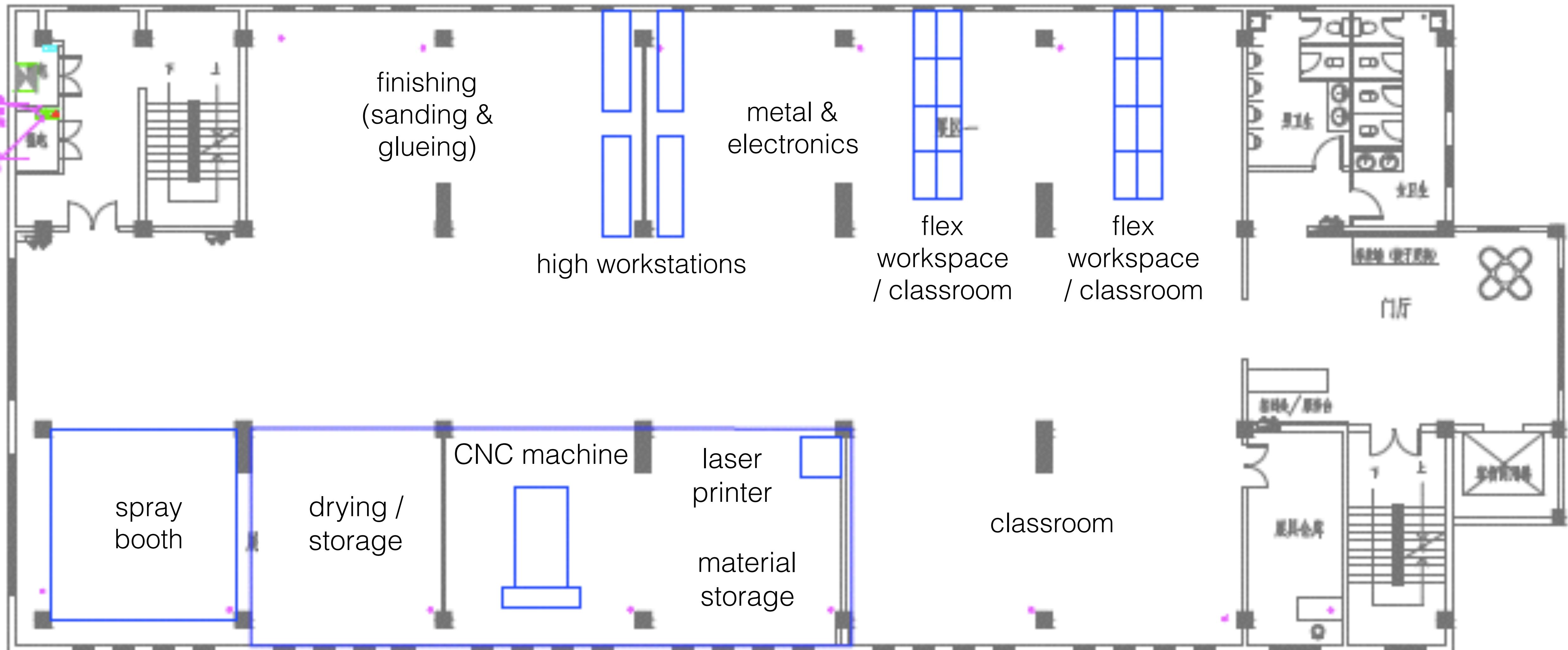


OPENDESK, open source design furniture to be made with CNC technology



SEEED STUDIO, providing open source electronics kits, based in Shenzhen





# AN INTRODUCTION TO FABLABS



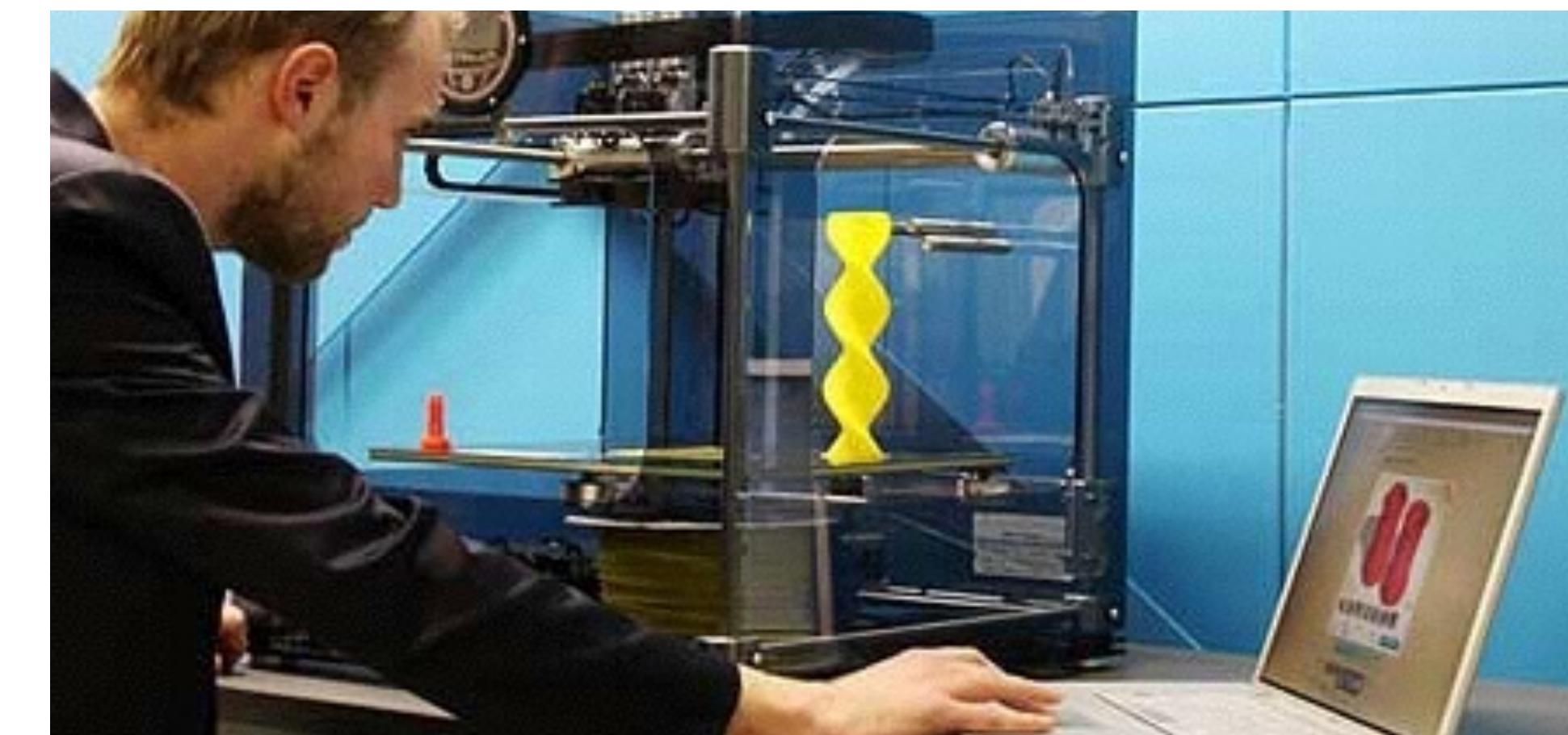
In 2003, the first FabLab started off as an outreach project for MIT's Center for Bits and Atoms to push the current limits of digital fabrication technology. Since their first days at MIT, FabLabs have spread across the globe, creating a worldwide network of facilities where users can use the latest machines and tools to transform their project ideas and solutions from idea to reality.

FabLabs gives users access to industrial-grade fabrication and electronics tools that allow them to make almost anything that current technology can allow, and serve a wide variety of users, from farmers and adults to entrepreneurs and children.

website: <http://fab.cba.mit.edu/>



▼ Neil Gershenfeld, professor from MIT Center for Bits & Atoms, founder of the FabLab concept.



▼ 3D printing is one example of digital fabrication that FabLabs offer users access to

# AN INTRODUCTION TO FABLABS



## Where can FabLabs be found?

There are currently 267 FabLabs that can be found in over 40 countries. This global network acts a platform for users to seamlessly share processes and designs regardless of borders and distance.

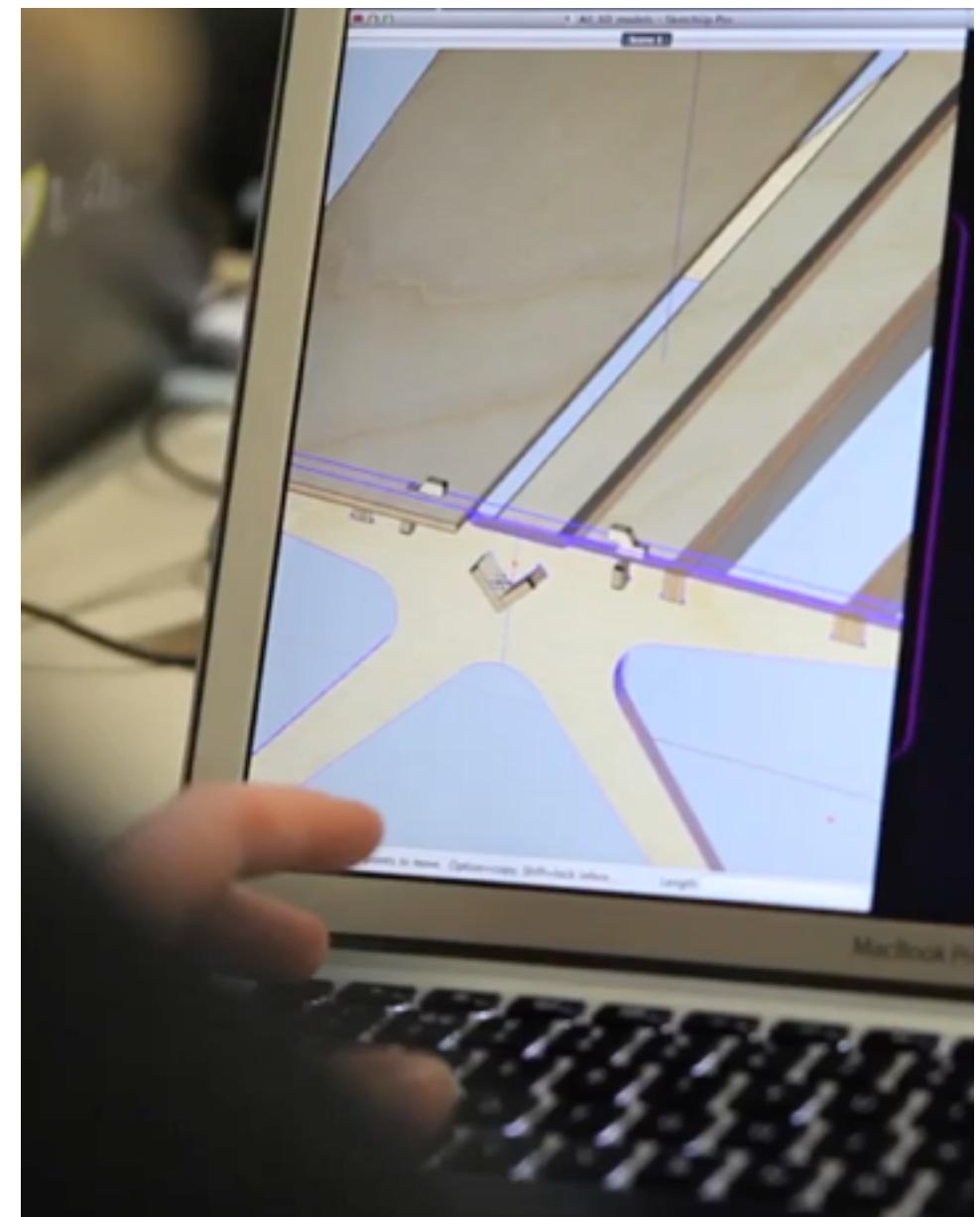


► Fab Lab Tulsa

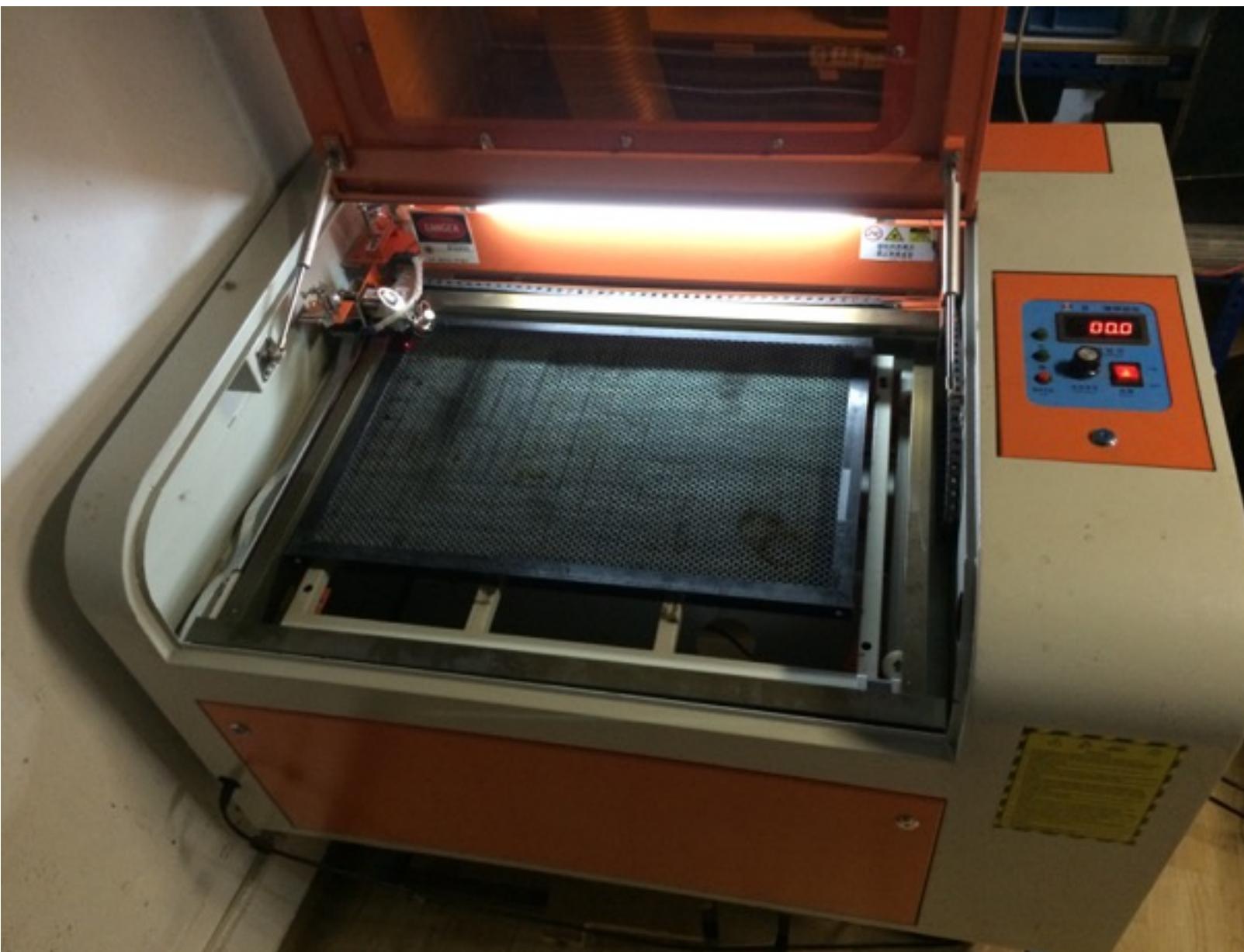


► Fab Lab Luzern

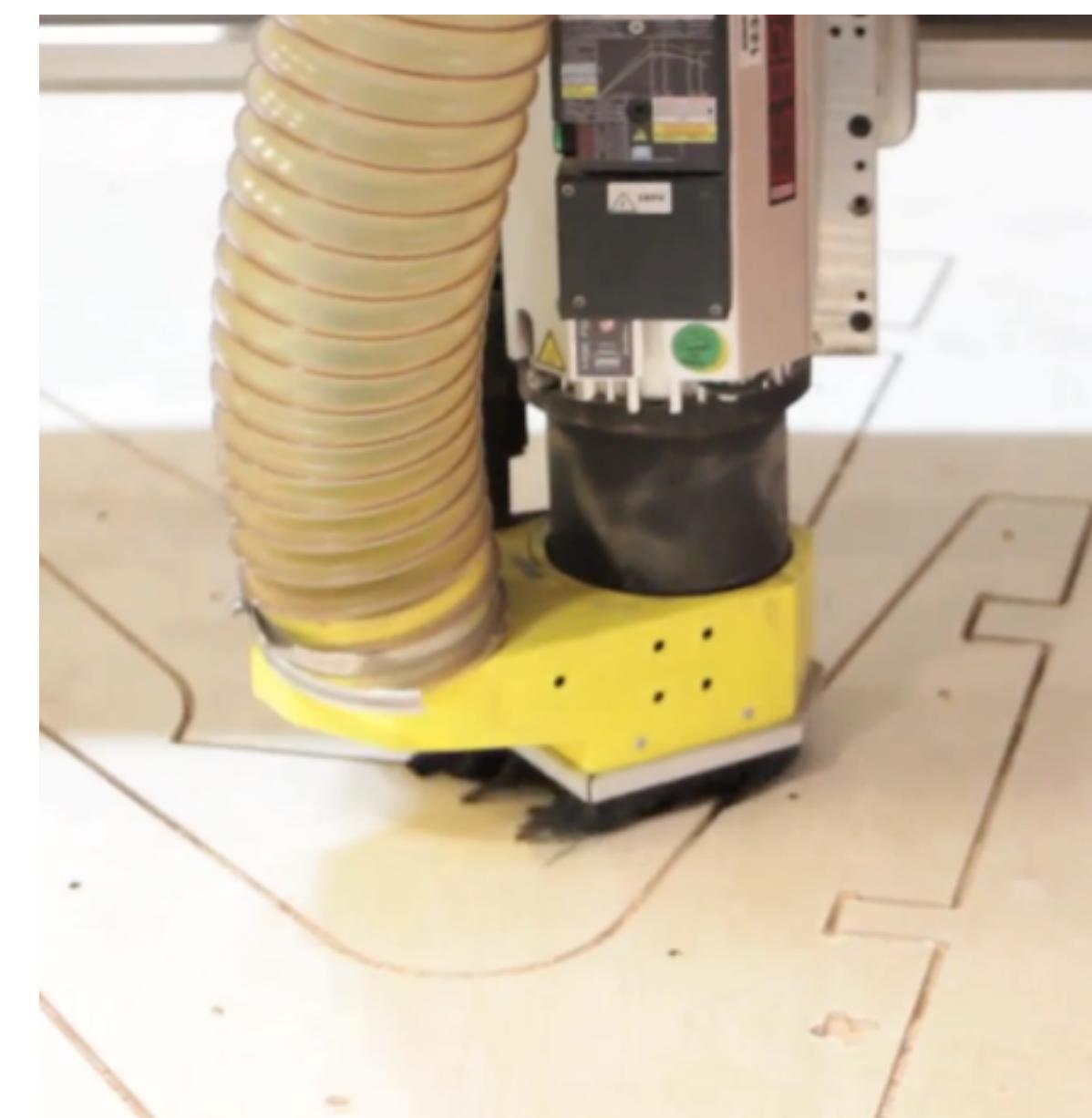
# AN INTRODUCTION TO FABLABS



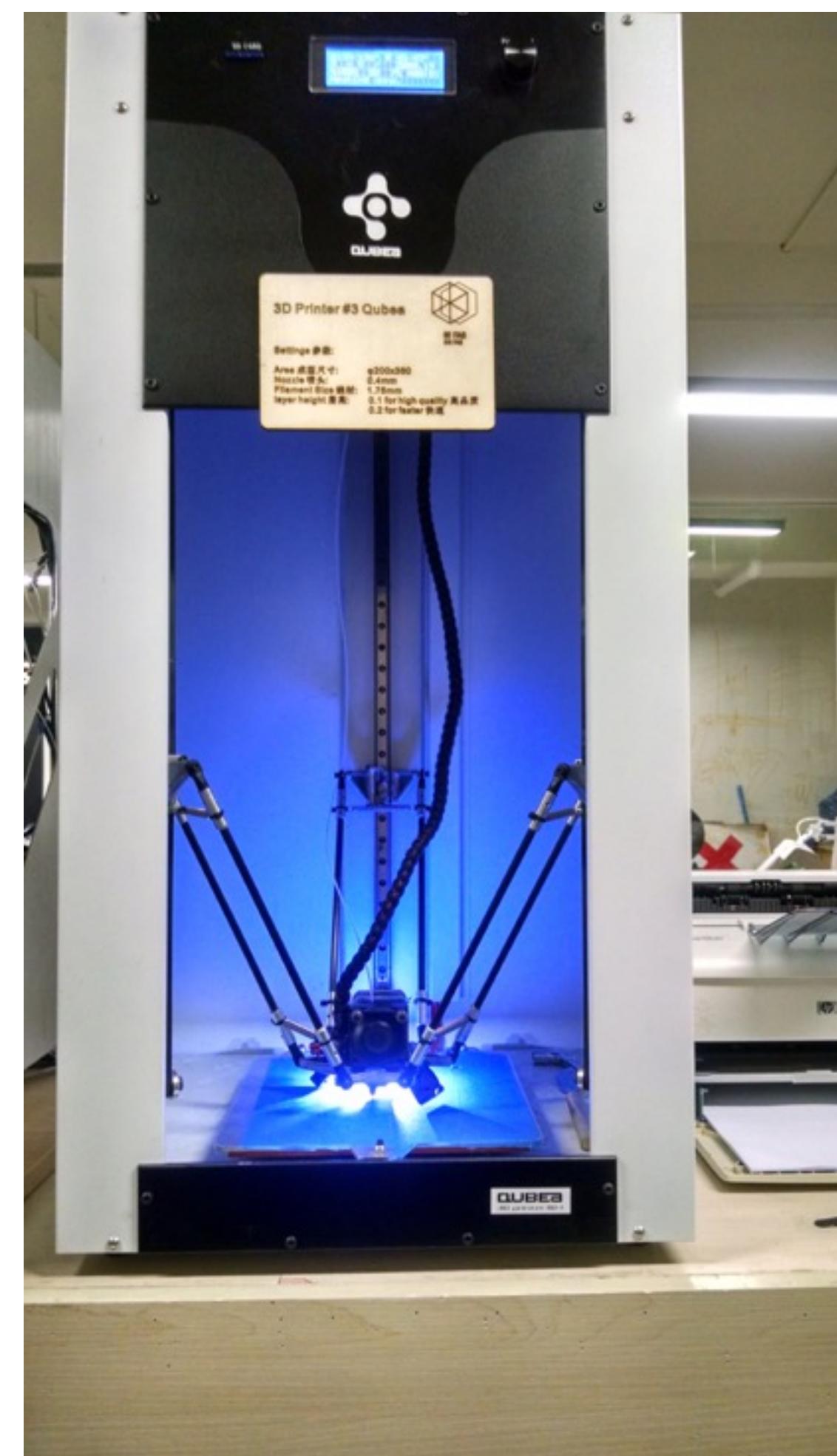
Digital design



Laser cutting



CNC milling



3D Printing

**A fablab provides access to (and training in the use of) digital design software & digital fabrication tools**

3D Design software connected to various 3D digital fabrication tools including Laser cutting / engraving, CNC milling, 3D printing, electronics along with traditional fabrication tools

# WHAT IS XINFAB?



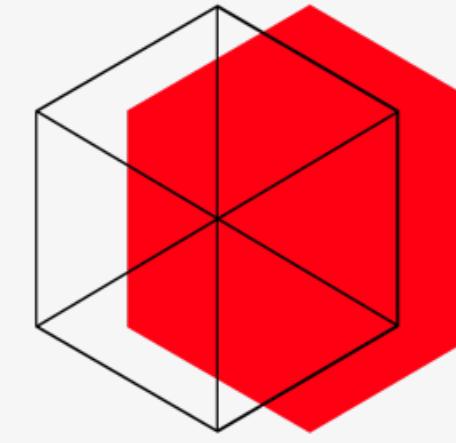
The goal of XinFab is to give the Shanghai community of makers, inventors and startups access to cutting-edge fabrication tools and technologies at the lowest cost possible, so that every man, woman and child with a project idea and the willpower to see it through can afford the means to make their ideas into reality.

We've been acknowledged as an official FabLab on FabLab's global network. <https://www.fablabs.io/xinfab>

Weibo: @XinFab新Fab



# WHAT IS XINFAB?



新 FAB  
XIN FAB



## Where is XinFab located?

XinFab is located next to the hackerspace Xinchejian, in a hardware startup co-working space near Jing'an Temple.

This location places XinFab in the business heart of Shanghai, making collaboration and transportation very convenient. The XinFab space includes 3 workshop zones: metal, wood and plastic. Shared areas with the People Squared co-working space includes public areas, meeting rooms, a kitchen and dining area.

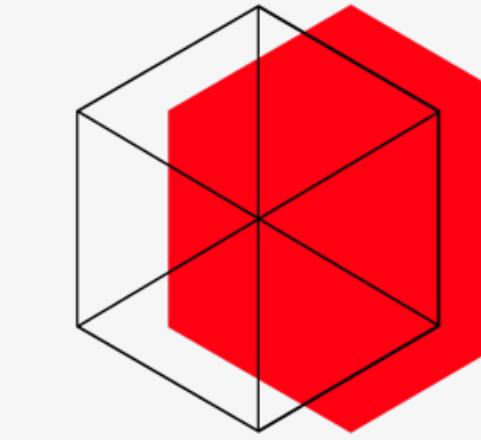


▼ our current venue



▼ Our current venue

# SOME WELL KNOWN VISITORS



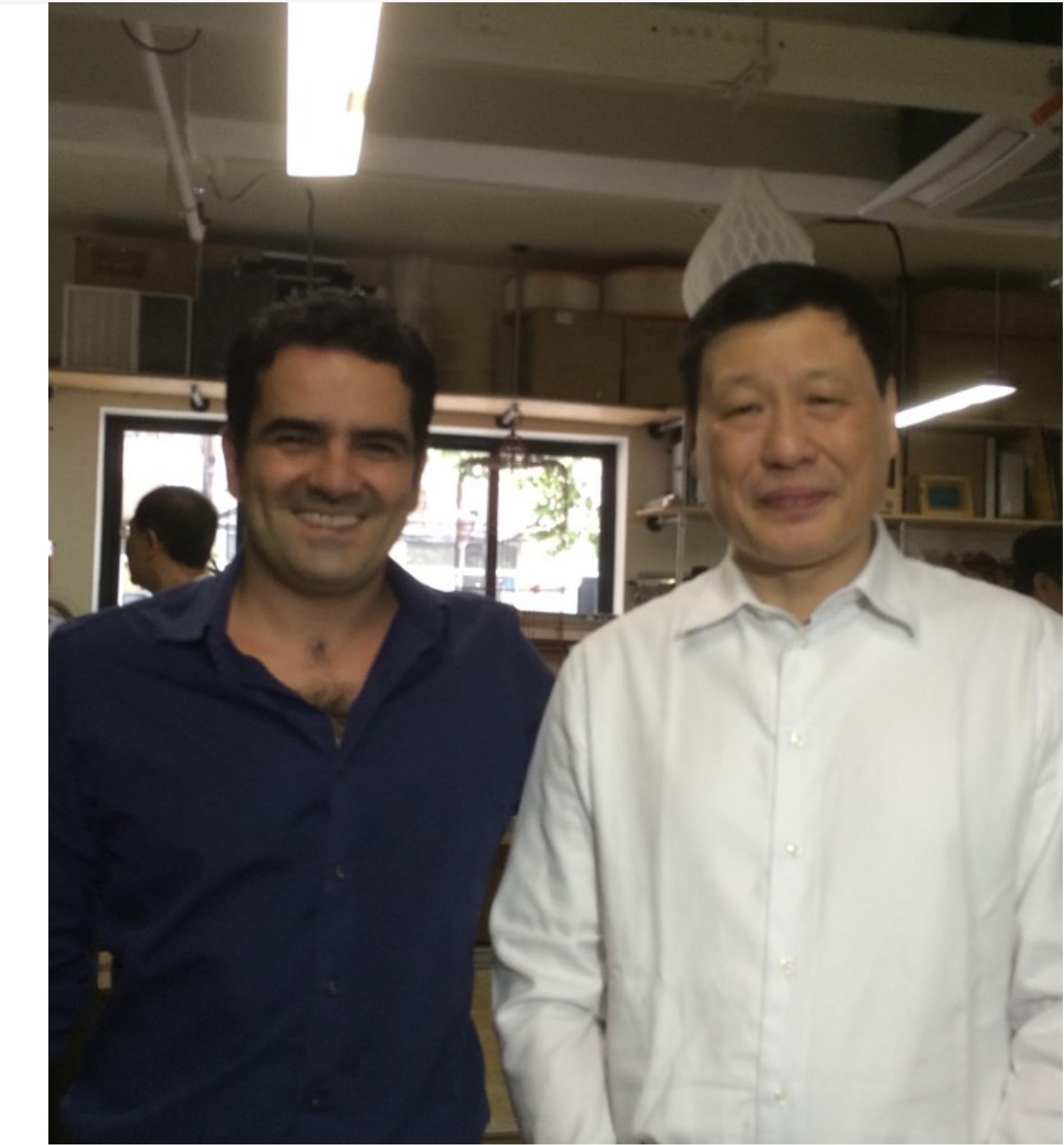
新 FAB  
XIN FAB



Minister of Technology

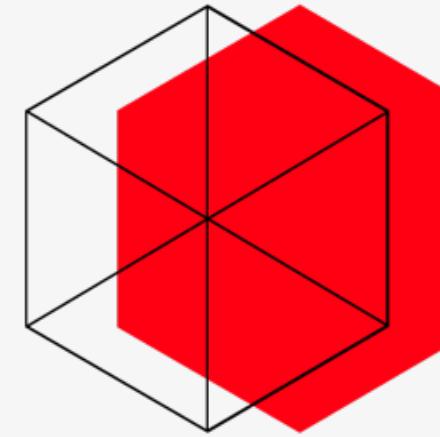


Shanghai Mayor



Shanghai Vice-Mayor

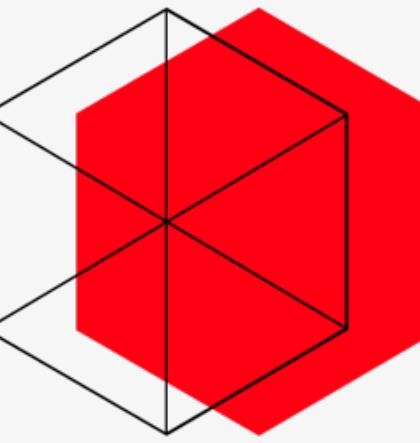
# SOME PROJECTS



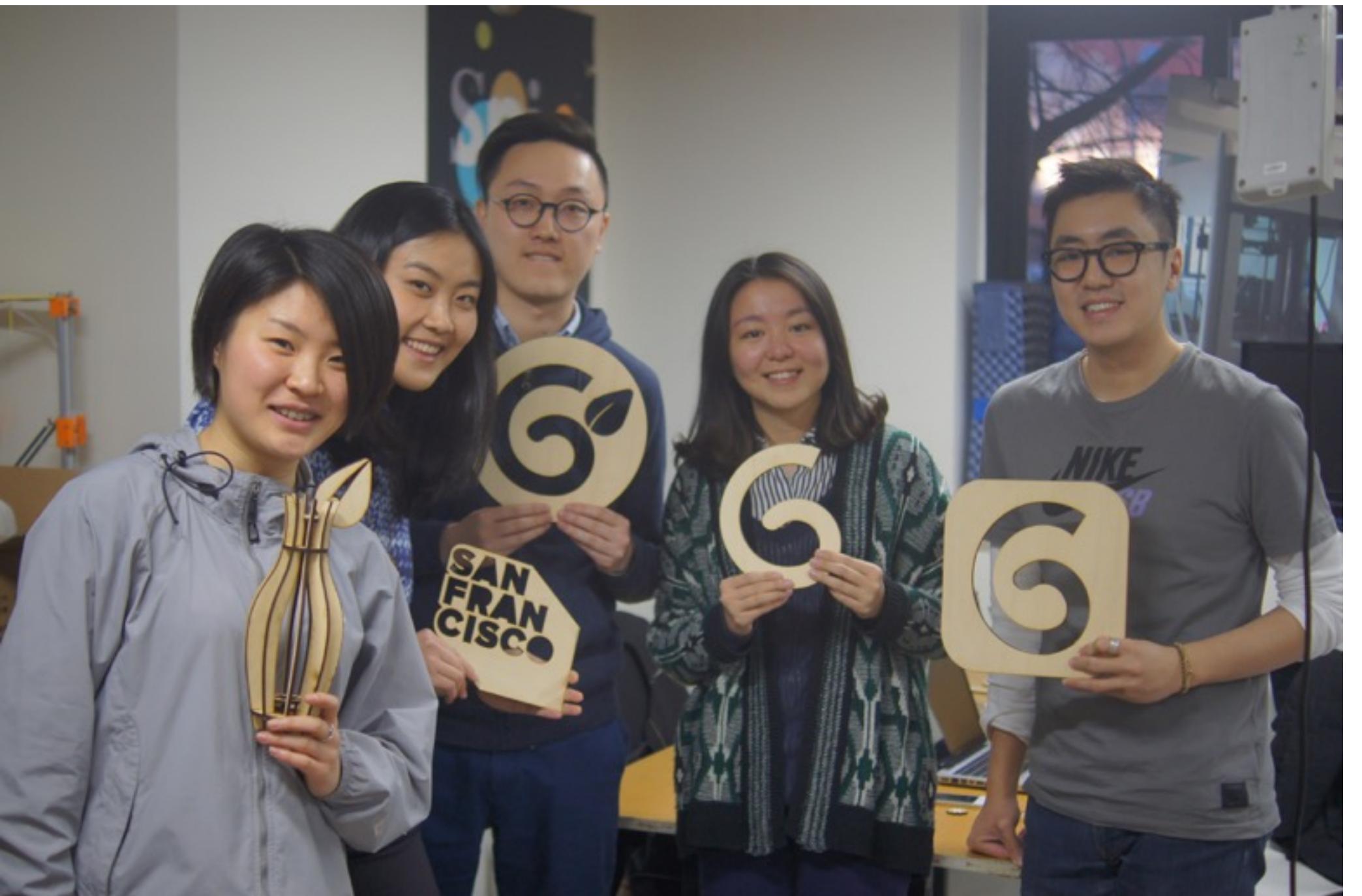
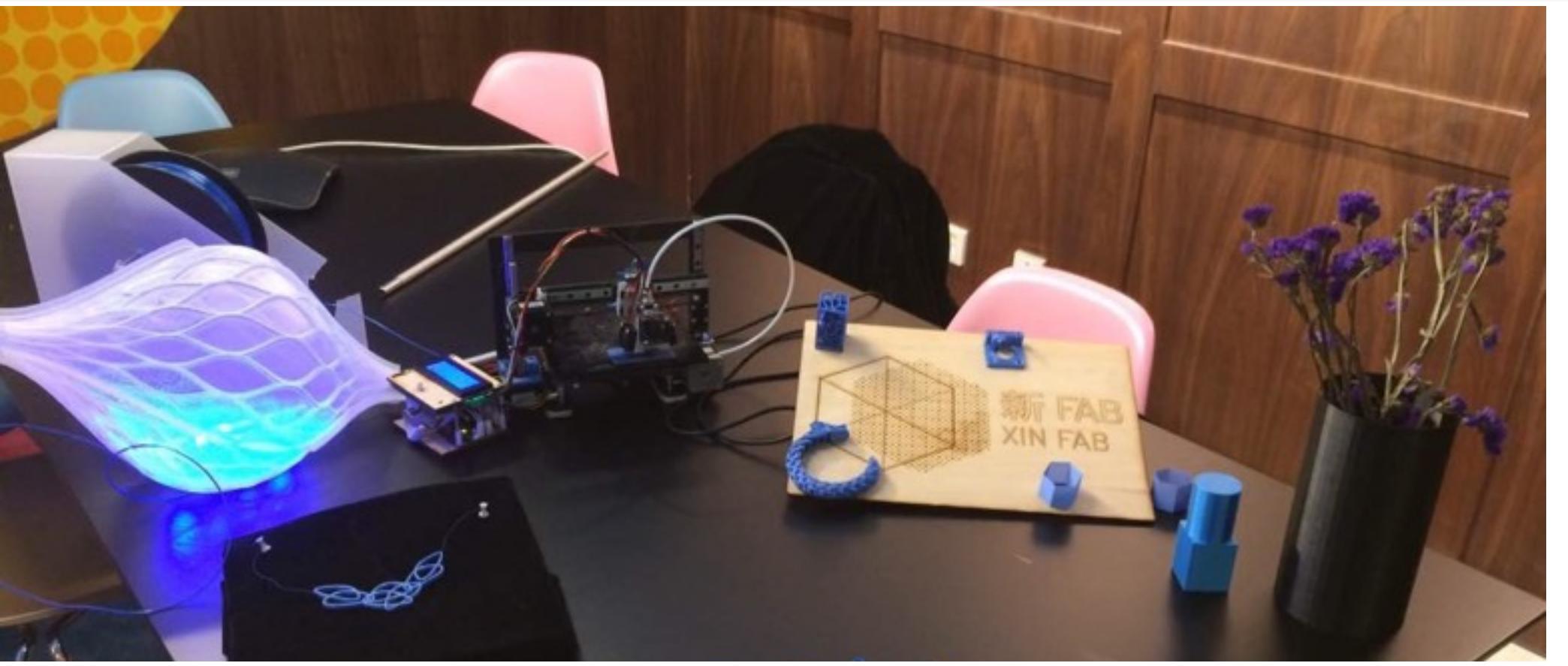
新 FAB  
XIN FAB



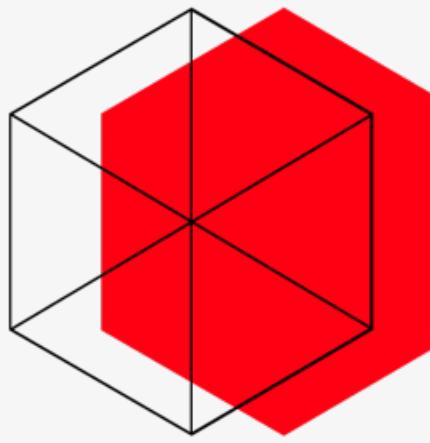
# SOME PROJECTS



新 FAB  
XIN FAB



# SOME PROJECTS



新 FAB  
XIN FAB



# AUTODESK



## AutoCAD

Design every detail with AutoCAD software, one of the world's leading 2D and 3D design platforms.

[Download free trial](#)



## Inventor

Design, visualize, and simulate your products before they are built with Inventor 3D CAD software.

[Download free trial](#)



## Fusion 360

Fusion 360 combines industrial and mechanical design with collaboration in an easy-to-use, affordable 3D CAD tool.

[Try it now](#)



## Revit

Specifically built for BIM, Revit software helps you design, construct, and maintain higher-quality, more energy-efficient buildings.

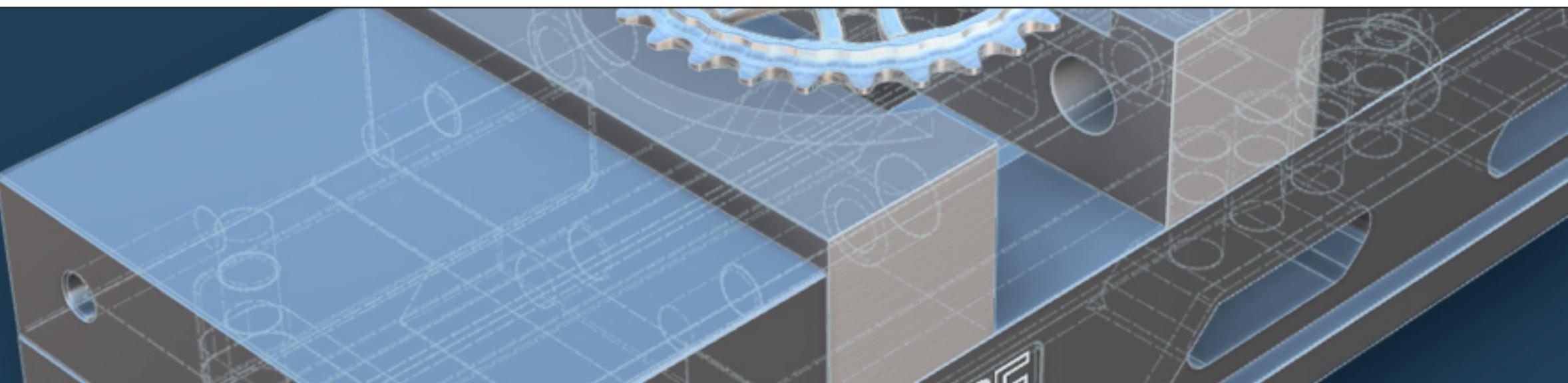
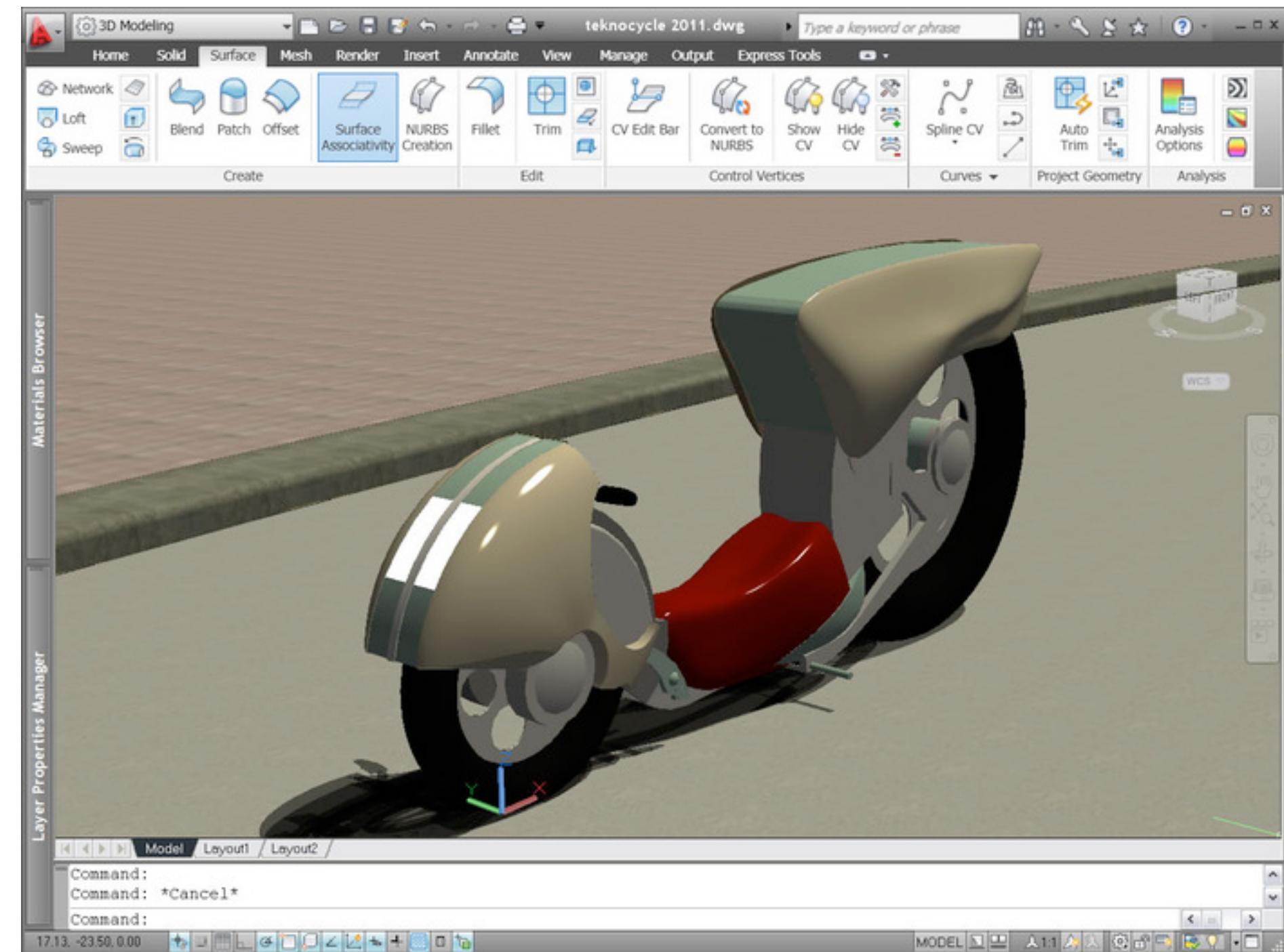
[Download free trial](#)

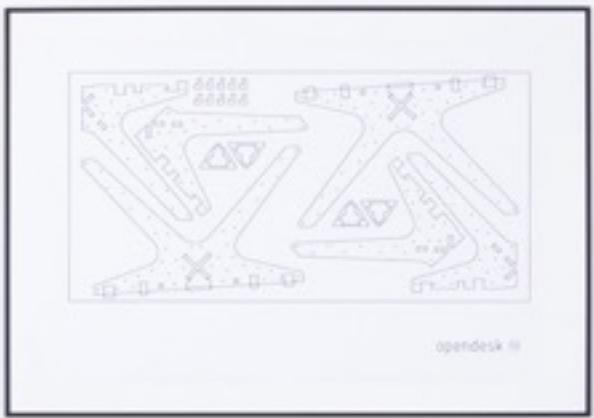


## Tinkercad

Tinkercad is a free, easy-to-learn online app anyone can use to create and print 3D models.

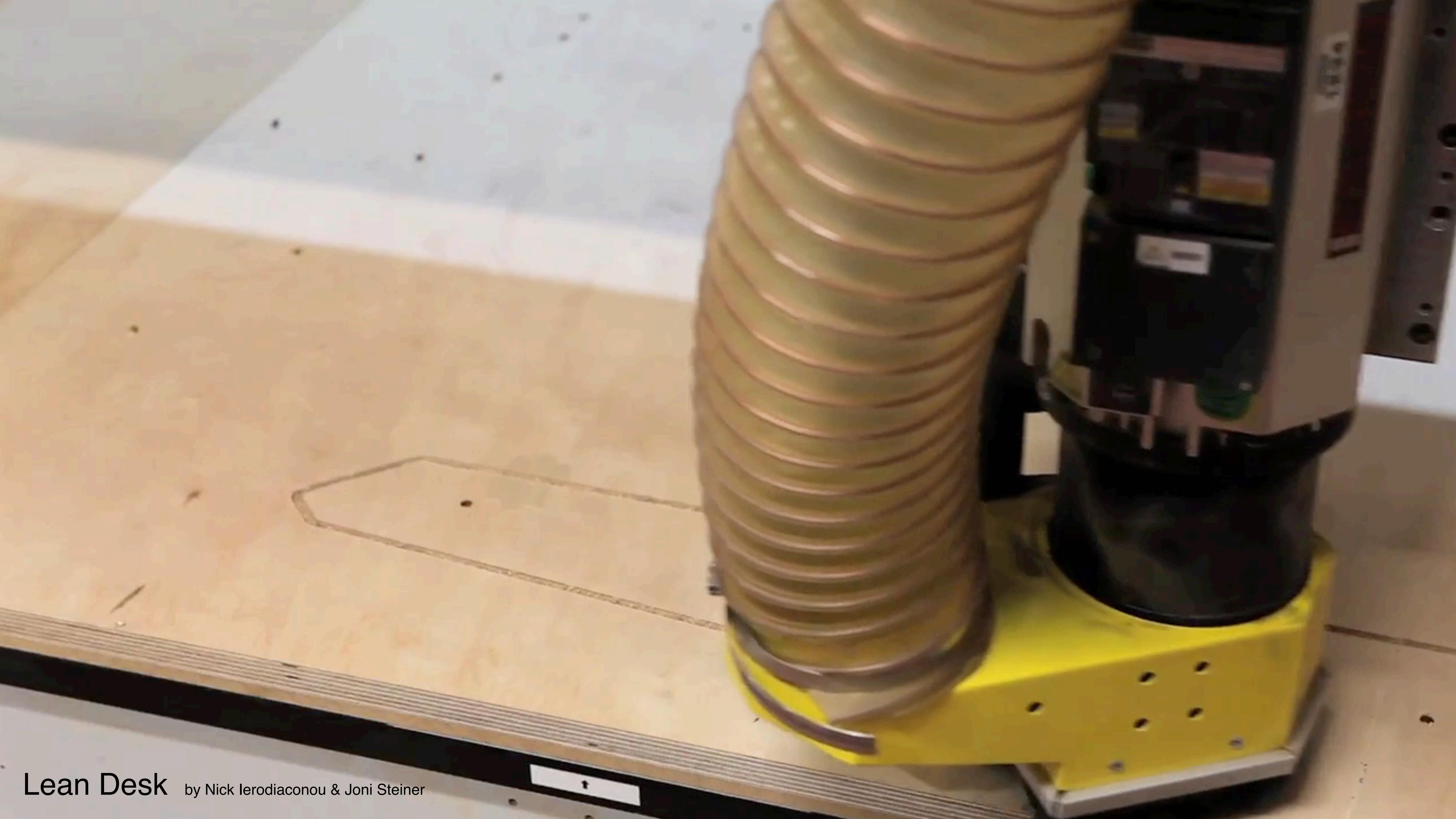
[Start Now](#)





**Lean Desk** by Nick Ierodiaconou & Joni Steiner

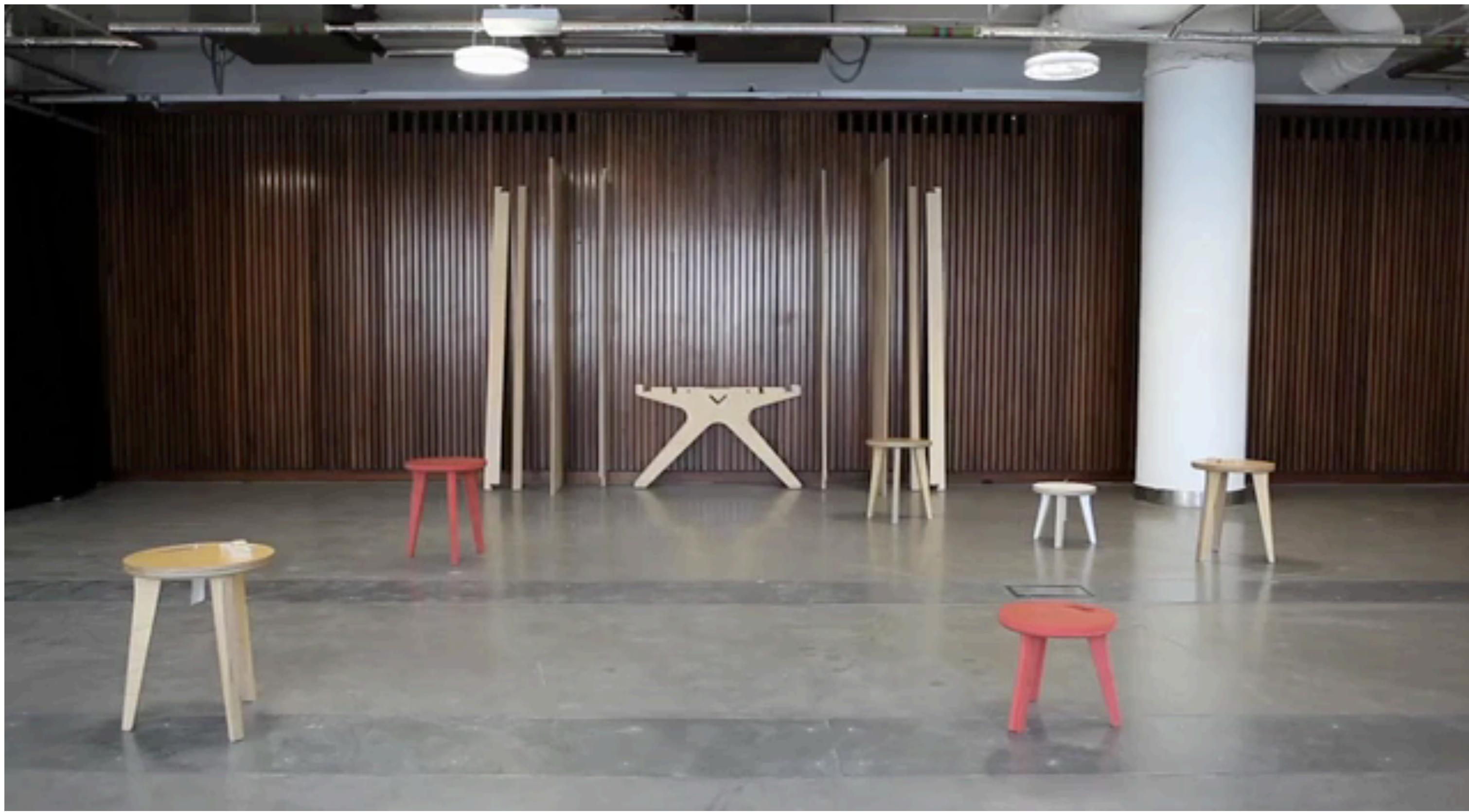




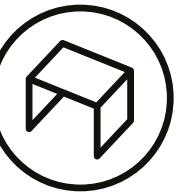
Lean Desk

by Nick Ierodiaconou & Joni Steiner

for open making

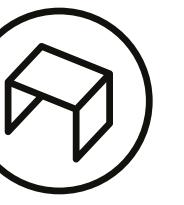


Lean Desk by Nick Ierodiaconou & Joni Steiner





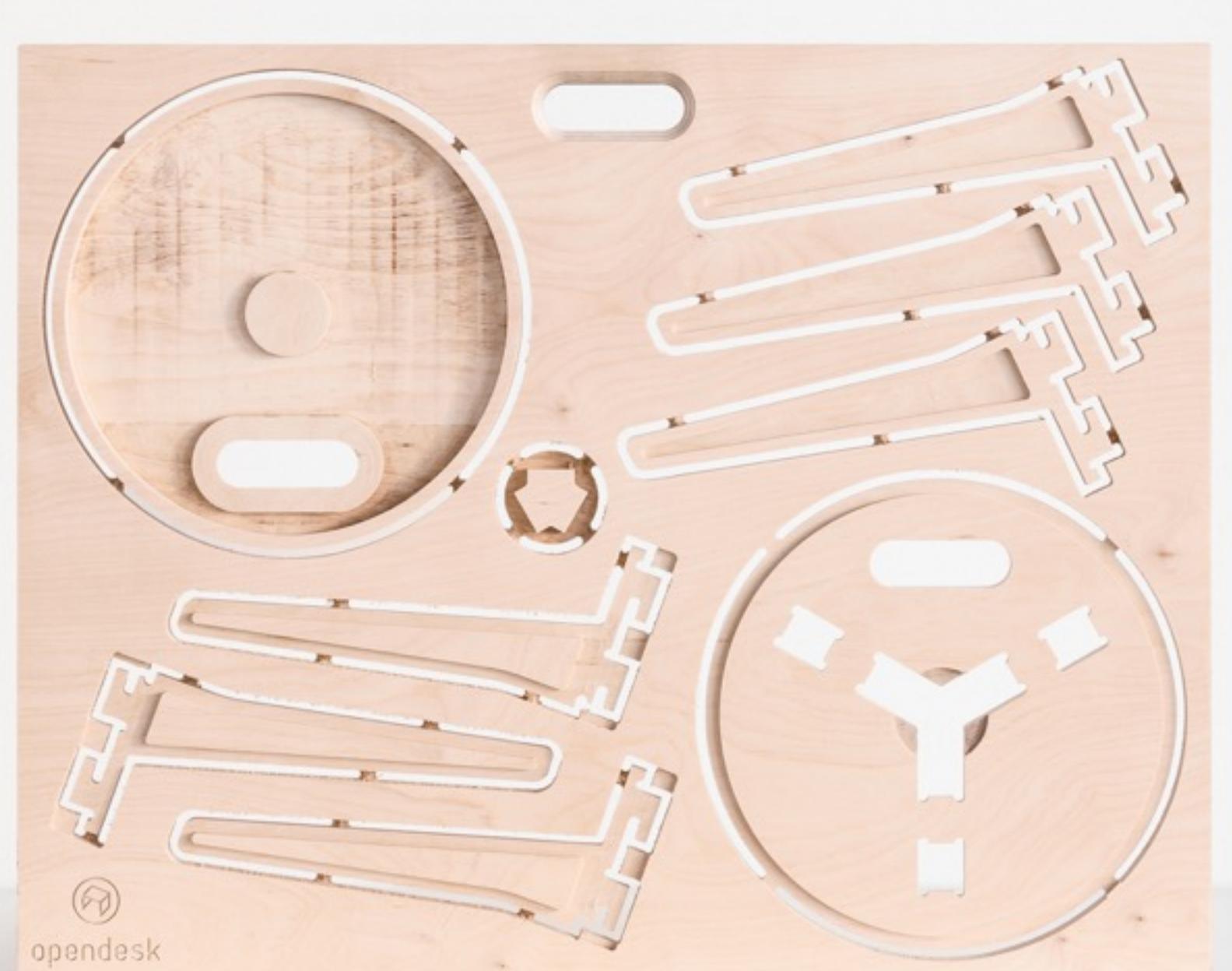
Valoví Chair by Denis Fuzii



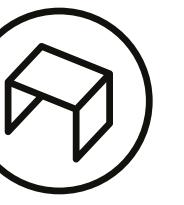


**Half Sheet Table** by Lynton Pepper



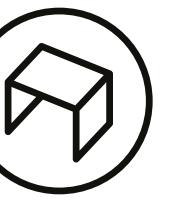


**Edie Stool 'Airfix' version** by David & Joni Steiner



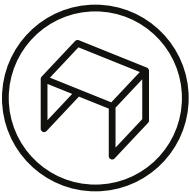


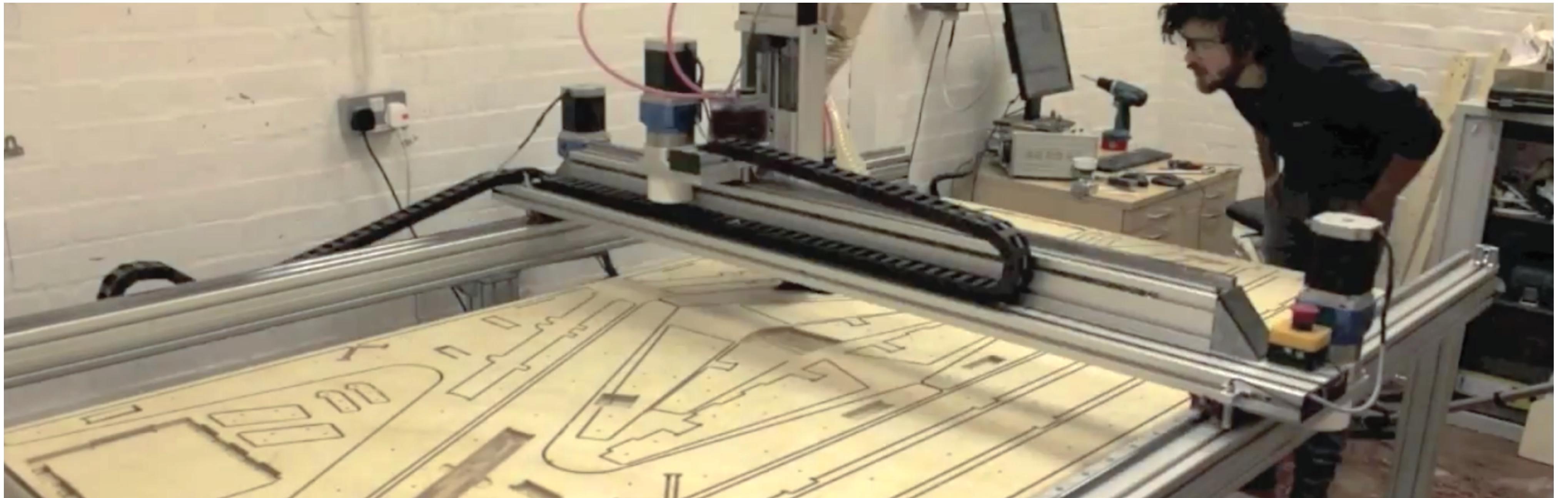
**Edie Stools & benches** by David & Joni Steiner



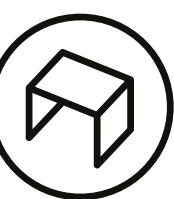


Ensamblería Mexico City





Eagle House Pop-Up Furniture Factory Bristol, UK





# Seeed Studio!

成立于2008年，是一家致力于促进开源硬件发展的服务型企业。我们通过提供模块化的快速开发工具，使设计者能根据创意，简单快速地开发出产品原型。此外，我们还通过提供从研发辅助，采购生产到渠道分销的一站式配套服务，帮助设计者实现从创意到产品的转换。3年以来，我们不断加大技术和研发投入，努力优化供应链和销售渠道，使得企业的服务能力一直处于行业领先状态。此外，为鼓励民族自主创新精神，我们还投资建立了深圳第一家Hackerspace——柴火，努力为设计者的创造和创业打造一个良好环境。坚持不懈的努力为我们赢得了行业尊重和客户信任。目前，我们已经与众多设计者建立了紧密的合作关系，其中包括Google, MICROSOFT, MIT, NASA, MAKEZINE等知名企业和组织。在开源硬件的框架下，合作推出了涉及新媒体艺术、嵌入式平台、物联网、智能家居、便携式仪器等领域的一系列明星产品和方案。基于对行业的深厚理解，以及不断的自我完善，我们正加快步伐，为实现"以促进开源硬件发展来推动创新精神传播"的愿景目标而前进。

# SEEED STUDIO

