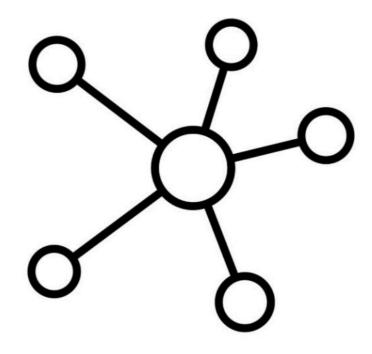
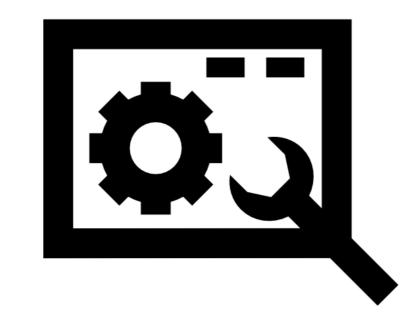
What is a Fab Lab?







Fab Lab

Fabrication Laboratory, short: Fab

Lab

Initiated by MIT Center of Bits and Atoms

A prototyping platform that stimulates local entrepreneurship, education and innovation.

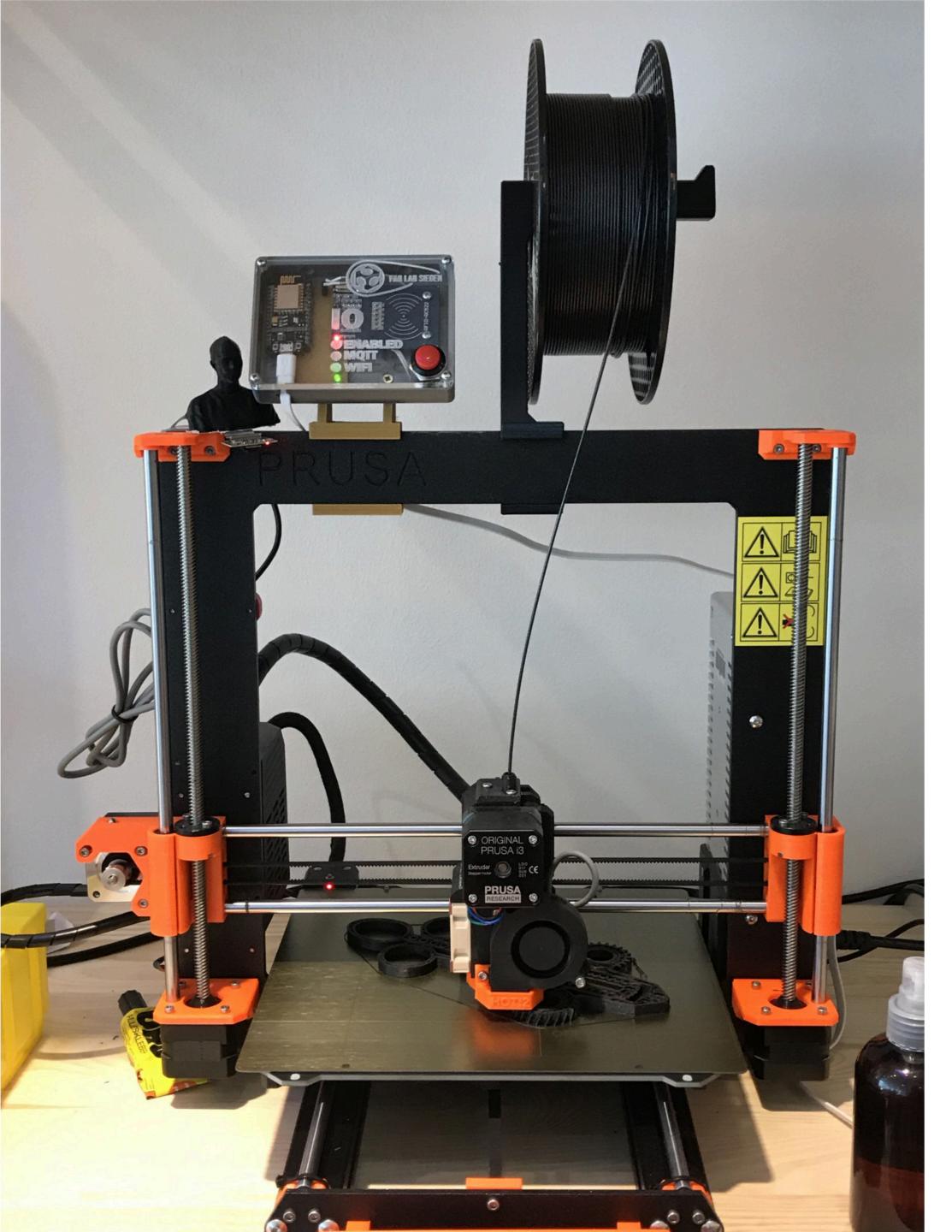
Global Network / Common Tools

To be a Fab Lab means connecting to a global community of learners, educators, technologists, researchers, makers and innovators- -a knowledge sharing network.

A distributed laboratory for research and invention.

It's a type of Makerspace

"Fab Lab" is just a name for a very specific Makerspace.



Outline

What is a Fab Lab?

Short Intro to what a "Fab Lab" is. There are specific rules to what can be "Fab Lab" and what can not.

OPTIONAL: Conditions for Fab Lab Label

OPTIONAL: The Fab Charter

Core Equipment

Machines, hammers, nuts & bolts. "Fab Lab" must have these.

OPTIONAL: Space

Personnel

A Fab Lab needs personnel to run. In a place with machines and community, there is need of maintainance of both.

Work Safety

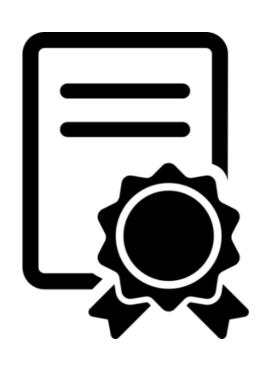
A Fab Lab must be able to reflect the needs of its host community. Each Fab Lab has to be different to a certain degree.

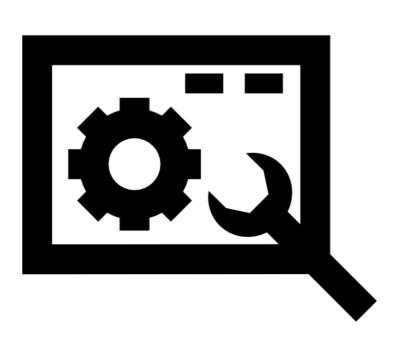
Community Function

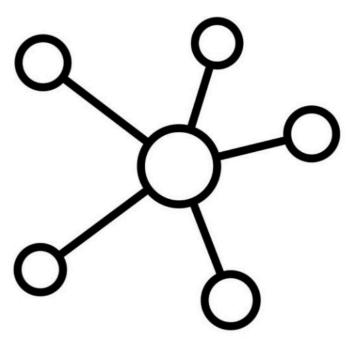
A Fab Lab must be able to reflect the needs of its host community. Each Fab Lab has to be different to a certain degree.

Conditions for Fab Lab Label?









Public Access

At least for a limited time per week.

For example "open lab day".

Subscribe to the Fab Lab Chartecommon Set of Tools and ProcesBasticipate in the Fab Lab Network

The Charter must be published somewhere, the Website.

If you start a project in London, you should be able to finish it in Palestine.

Collaborate, partner up with other
Labs from the network with
challenges, workshops or projects.
Attend (Video) conferences, or
contribute to the Fab Academy.

If conditions are not met, the lab must strive to meet them.

The Fab Charter

What is a fab lab?

Fab labs are a global network of local labs, enabling invention by providing access to tools for digital fabrication

Who can use a fab lab?

Fab labs are available as a community resource, olering open access for individuals as well as scheduled access for programs

Who owns fab lab inventions?

Designs and processes
developed in fab labs can be
protected and sold however an
inventor chooses, but should
remain available for individuals
to use and learn from

What's in a fab lab?

Fab labs share an evolving inventory of core capabilities to make (almost) anything, allowing people and projects to be shared.



What does the fab lab network provide?

Operational, educational, technical, nancial, and logistical assistance beyond what's available within one lab

What are your responsibilities?

safety:not hurting people or machines
operations:assisting with cleaning, maintaining, and improving the lab
knowledge:contributing to
How dampestationes are stricted b?

Commercial activities can be prototyped and incubated in a fab lab, but they must not con%ictwith other uses, they should grow beyond rather than within the lab, and they are expected to bene t the inventors, labs, and networks that contribute to their success



Core Equipment

Computer Controlled Subtractive Machining

- Laser Cutter
- CNC Large Scale Wood Router or Soft Materials Mill
- Vinyl Cutter
- Precision Desktop Milling Machine

Computer Controlled Additive Machining

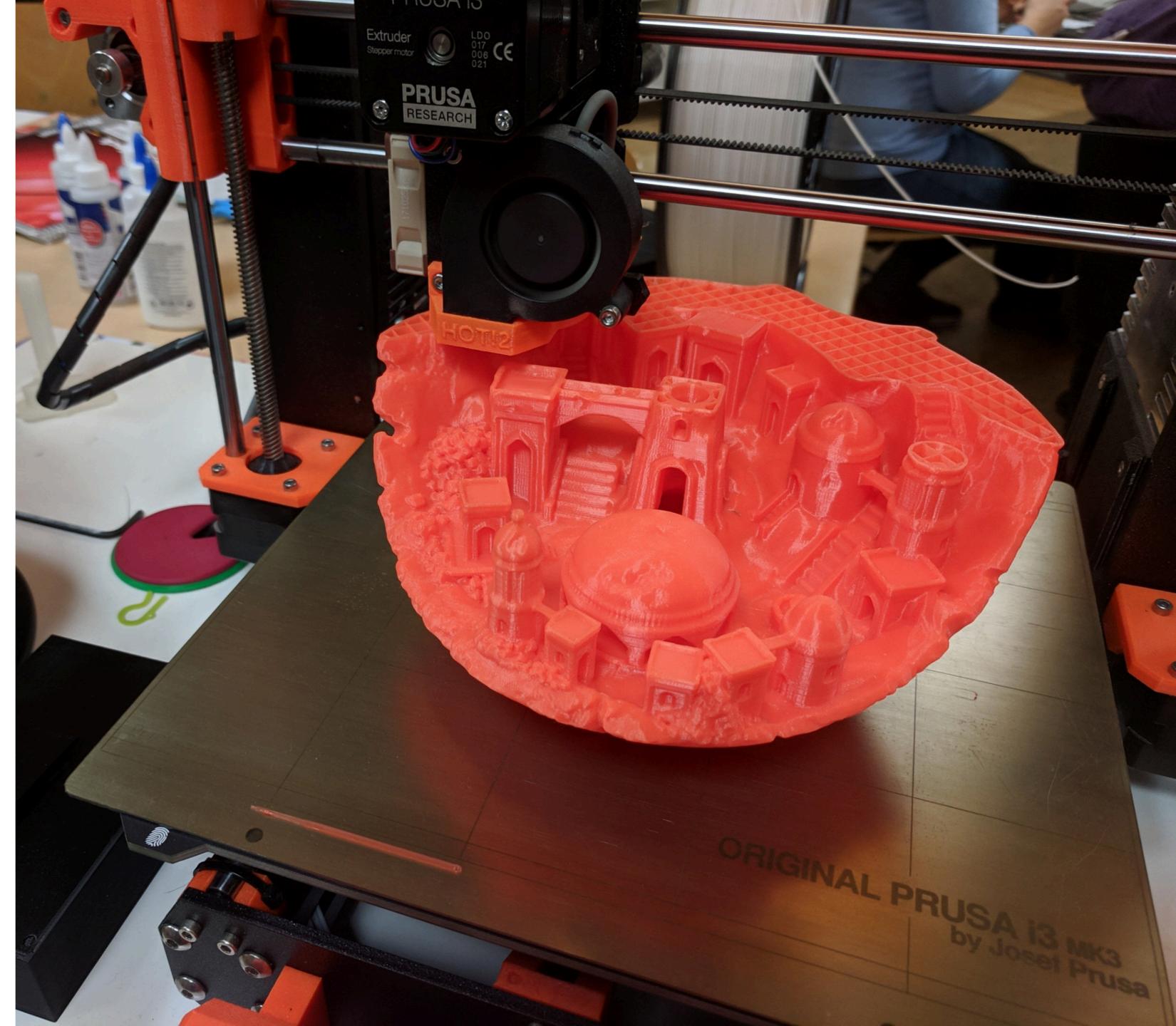
3D Printers

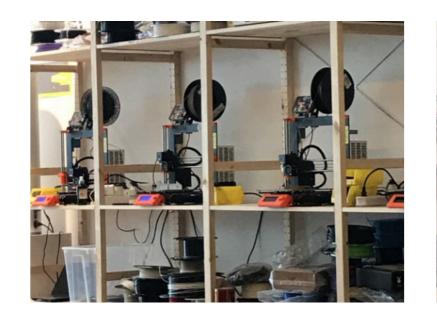
Electronics

Fully equipped electronics workbench and supplies

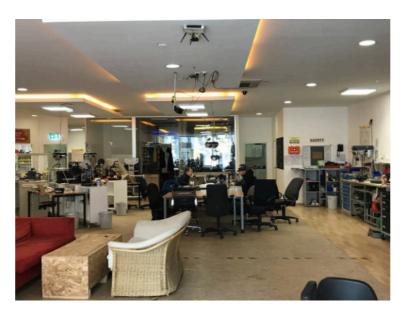
Communications / Network

connection with Fab Lab Video Conference Server













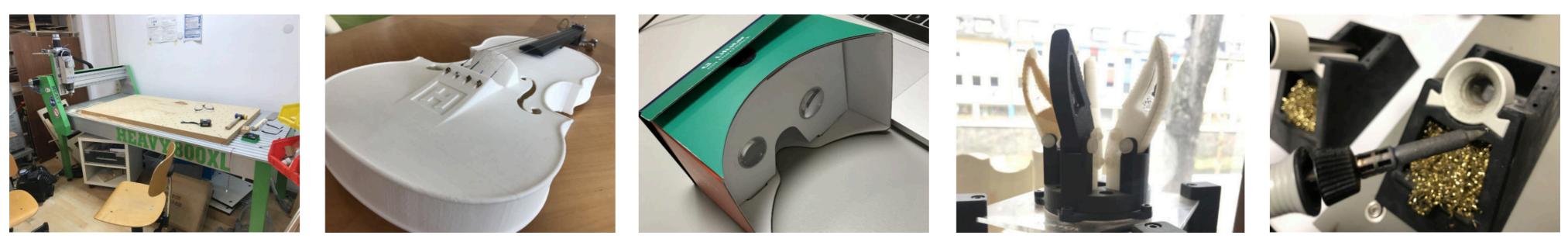


frastructure, cf. Excel Lis

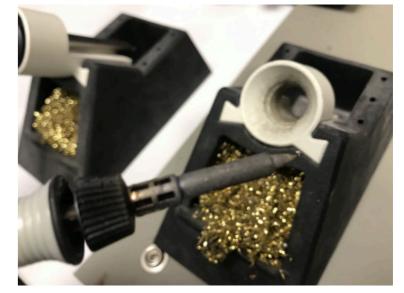












Your Great Subtitle Here

Space

How much space is available

It is important to know, how much space is available. What is the room structure?

Furnitute?

Shelves, tables, chairs, workbenches etc.

Structure?

Where are air vents? Power outlets? Etc.

Room divion / dirty work / clean work / fumes

Different work stations should be divided. When sanding dust will go to other tools. Some materials will produce fumes that might be harmful.





VR Area



Mobile Furniture



Repurpos Room



3D Printers



Large CNC



Electronics

Personnel



Such a lab needs Personnel



At least one technician

Machines, tools, cpace need to be tidy and clean. There has to be one person taking care of that. This person can also function as a mentor.



Champion

Personnel must be trained in work safety.



Community Function



Work Safety



Such a lab needs Personnel



At least one technician

Hardware, software, equipment, space. A "Fab Lab" must have these.



Safety

A Fab Lab needs personnel to run. In a place with machines and community, there is need of maintaince of both.



Community Function

A Fab Lab must be able to reflect the needs of its host community. Each Fab Lab has to be different to a certain degree.



Your Great Subtitle Here

Community Function



What is a Fab Lab?

"Fab Lab" can be considered as a brand. There are specific rules to what can be "Fab Lab" and what can not.



Infrastructure

Hardware, software, equipment, space. A "Fab Lab" must have these.



Personnel

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Community Function

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