A person is wearing a full-body suit that glows with a bright pink light. The suit appears to be made of a soft, flexible material. The background is dark, making the pink glow stand out. The person's arms are slightly raised, and they are looking towards the camera.

Soft Sensing for MM₃D Light

Brainstorming

Obiettivi

- Crea un squadra con tre persone con diverse conoscenze o abilità
- Stampa, Programmazione, Design, Elettronica

Demo
Hermanutic, Embodied, Alterity

Sensori

Presenza

Pressione

Temperatura

Umidità

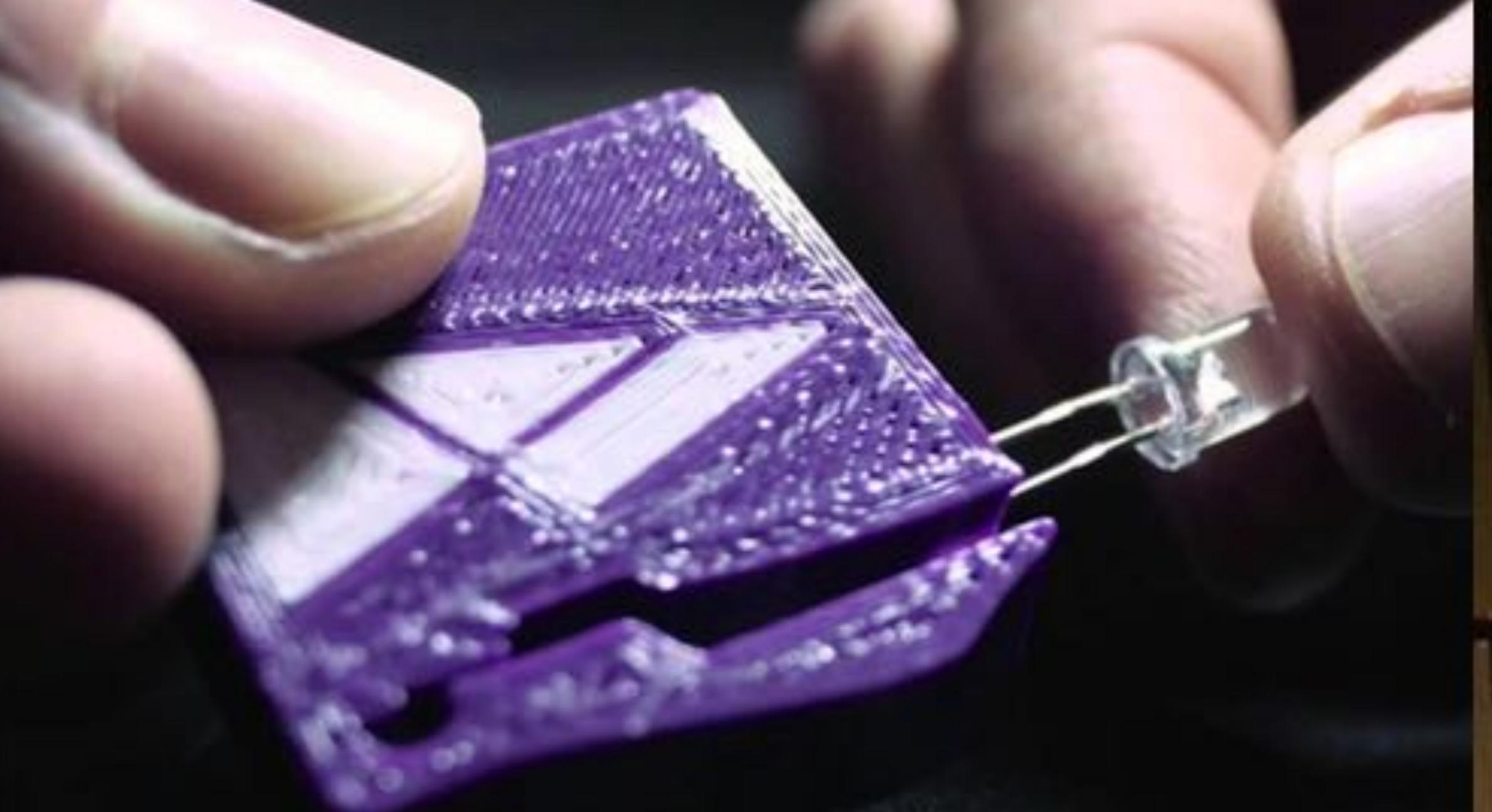
Distanza

Movimento

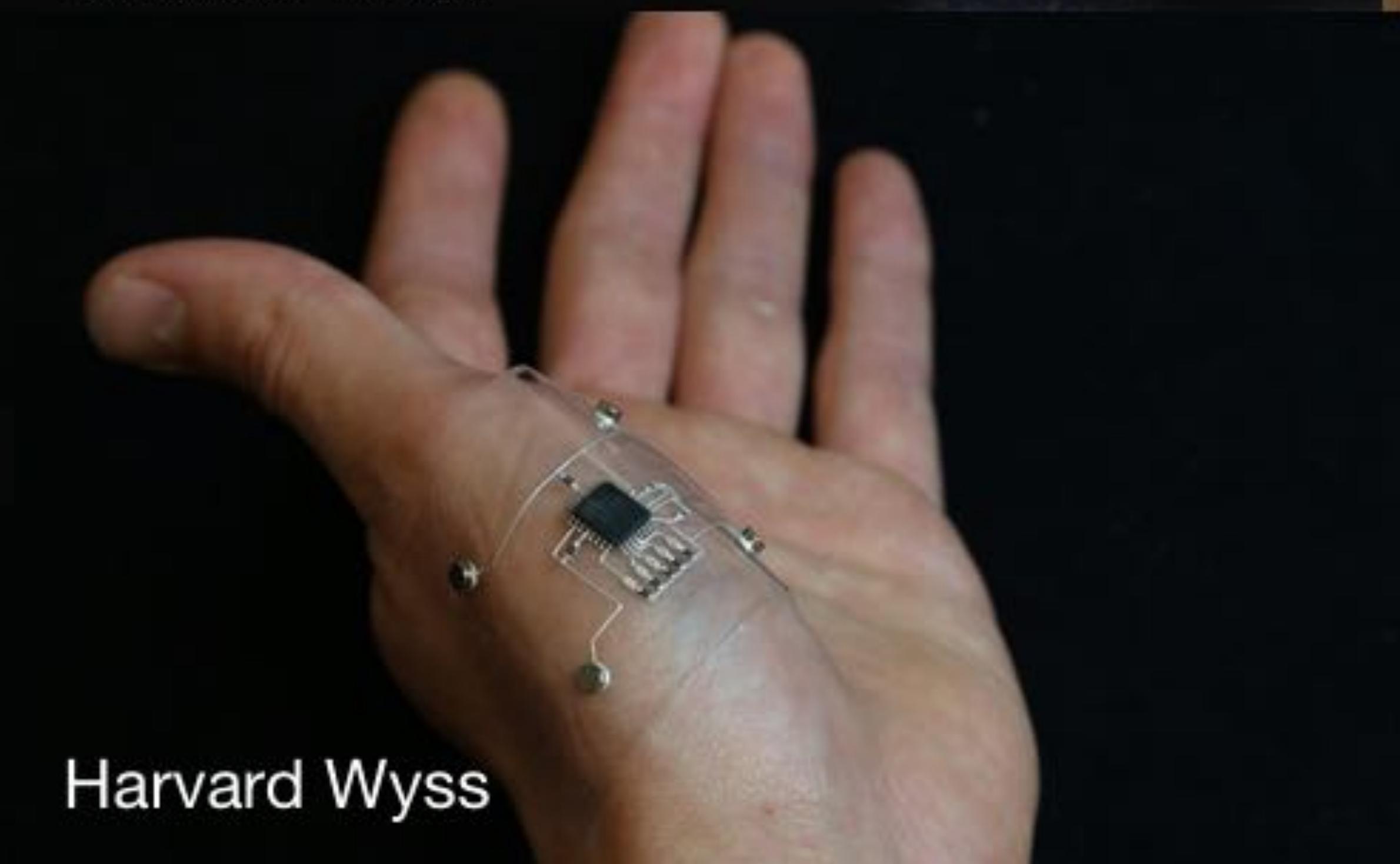
Co2

Colore

Orientamento



Sensoree



Mosaic Printer



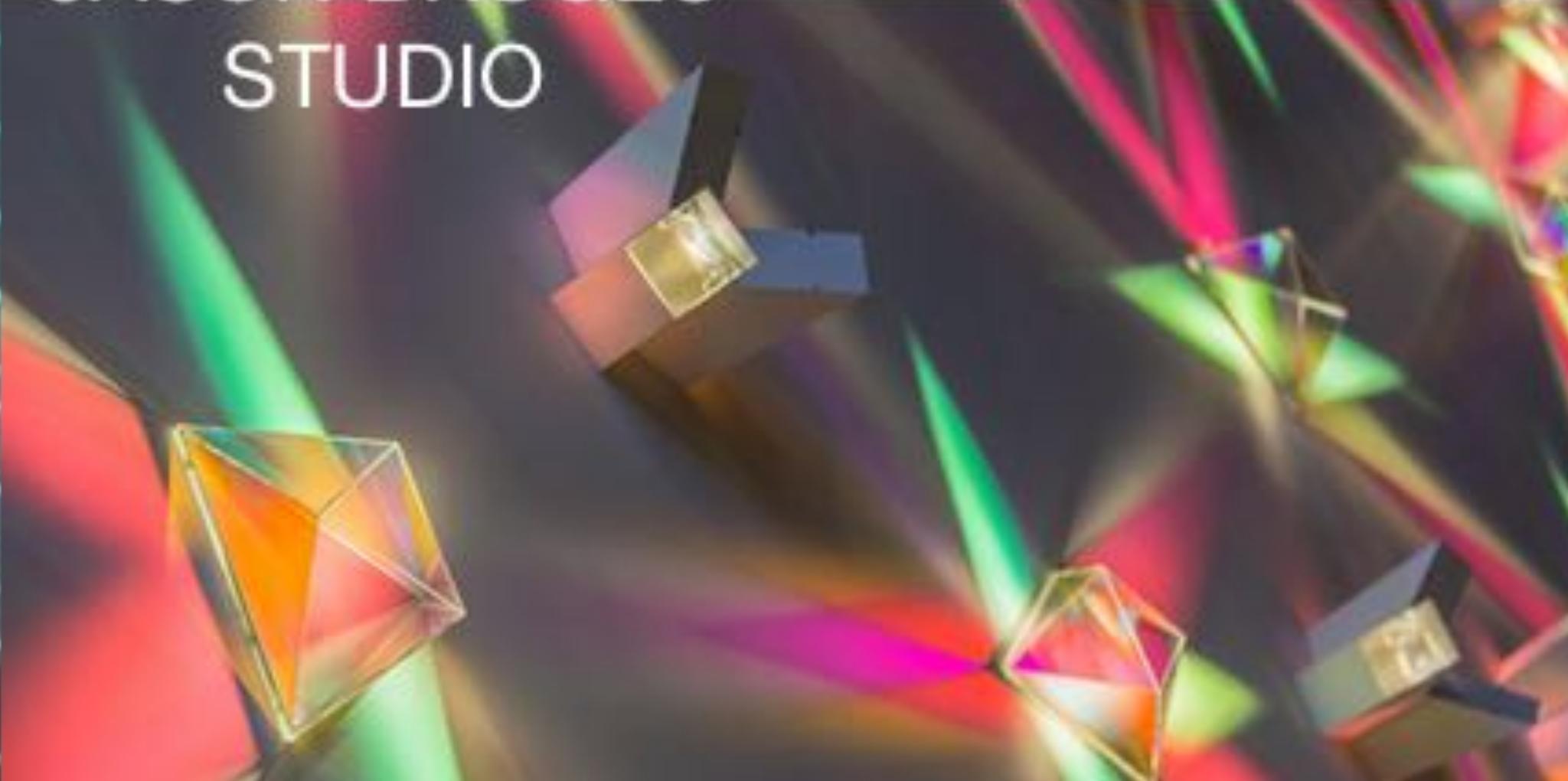
Harvard Wyss

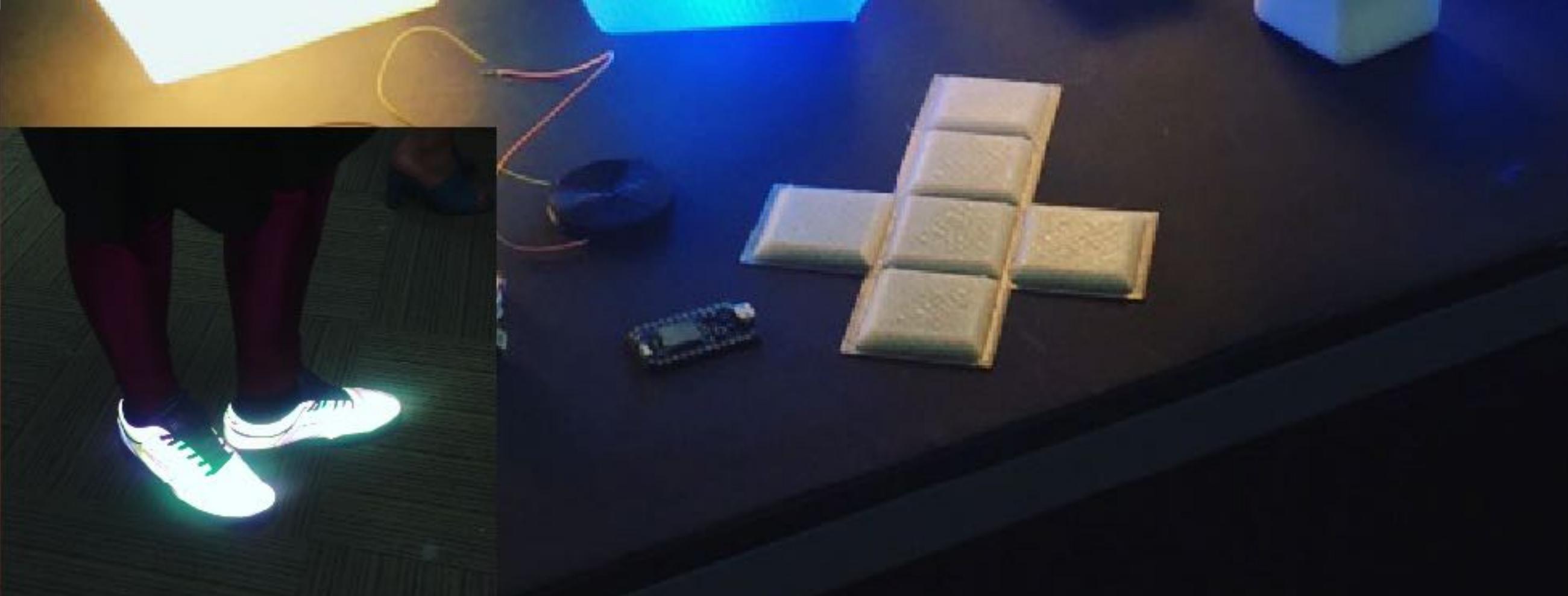


Linda Worbin



JASON BRUGES
STUDIO





Domande Post It Post It Questions

Cosa faresti con una stampante MM3D?

**Cosa faresti con una stampante MM3D flessibile/
morbida?**

**Cosa faresti con una stampante MM3D che crea
luci?**

Che tipo di elettronica integreresti?

Cerca una squadra

Interazine/IOT
Interazine/IOT

2.5 Package
2.5 Package

Integrazione
Integrazione

Interfaccia
Interface

Architettura
Architecture

Slicing
Slicing

Elettronica
Electronics

Software

Soft Sensori & Multi Material Luce Stampabile

Soft Sensors & Multi Material
Printable Light

Know How
Skills

Stampa
Printing

User Interactions

User Interactions

User Experiences

User Experiences

First Hand Making

First Hand Making

Livelli di Difficoltà

Level of Difficulty

Machine Modification

Machine Modification

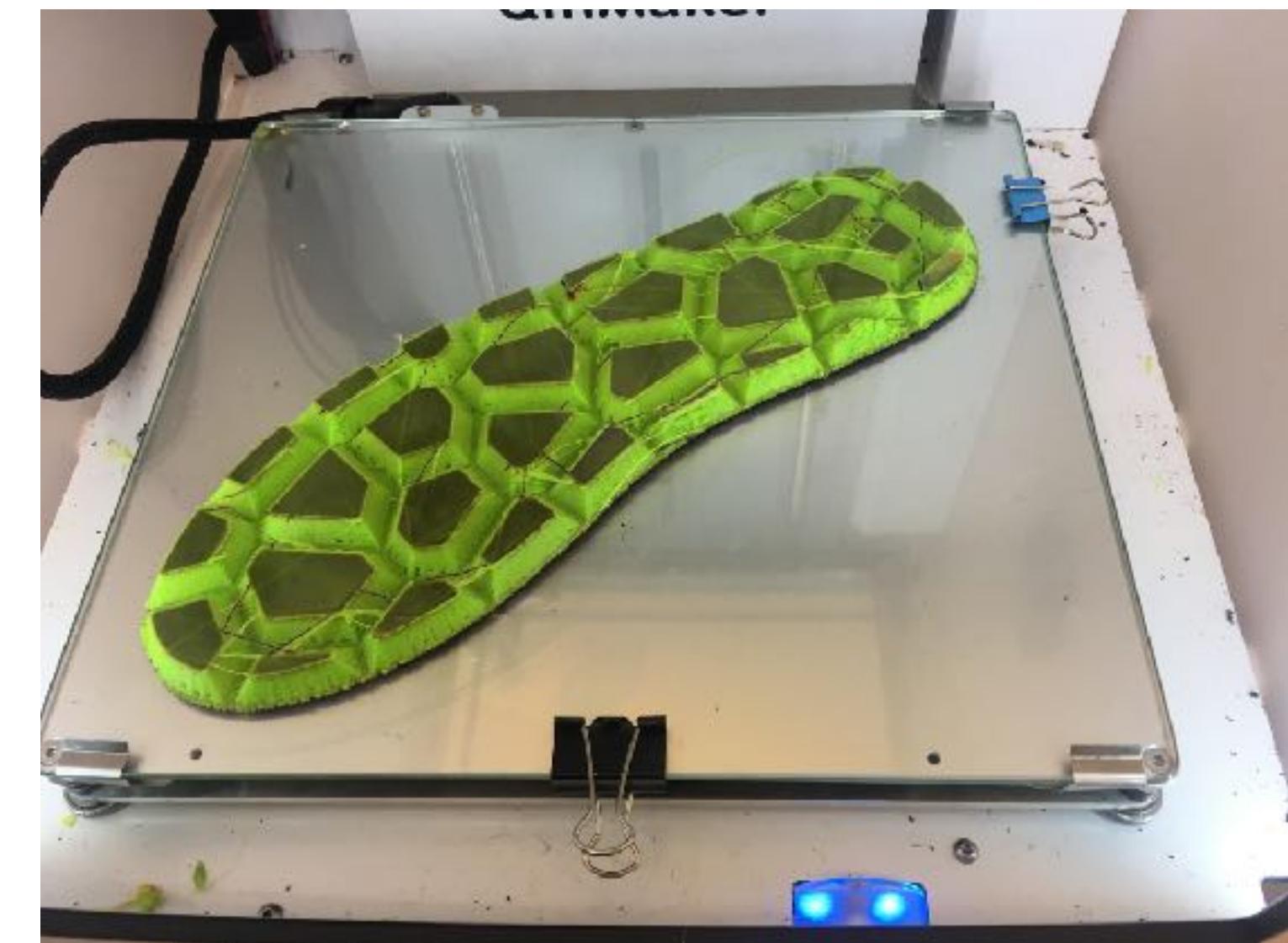
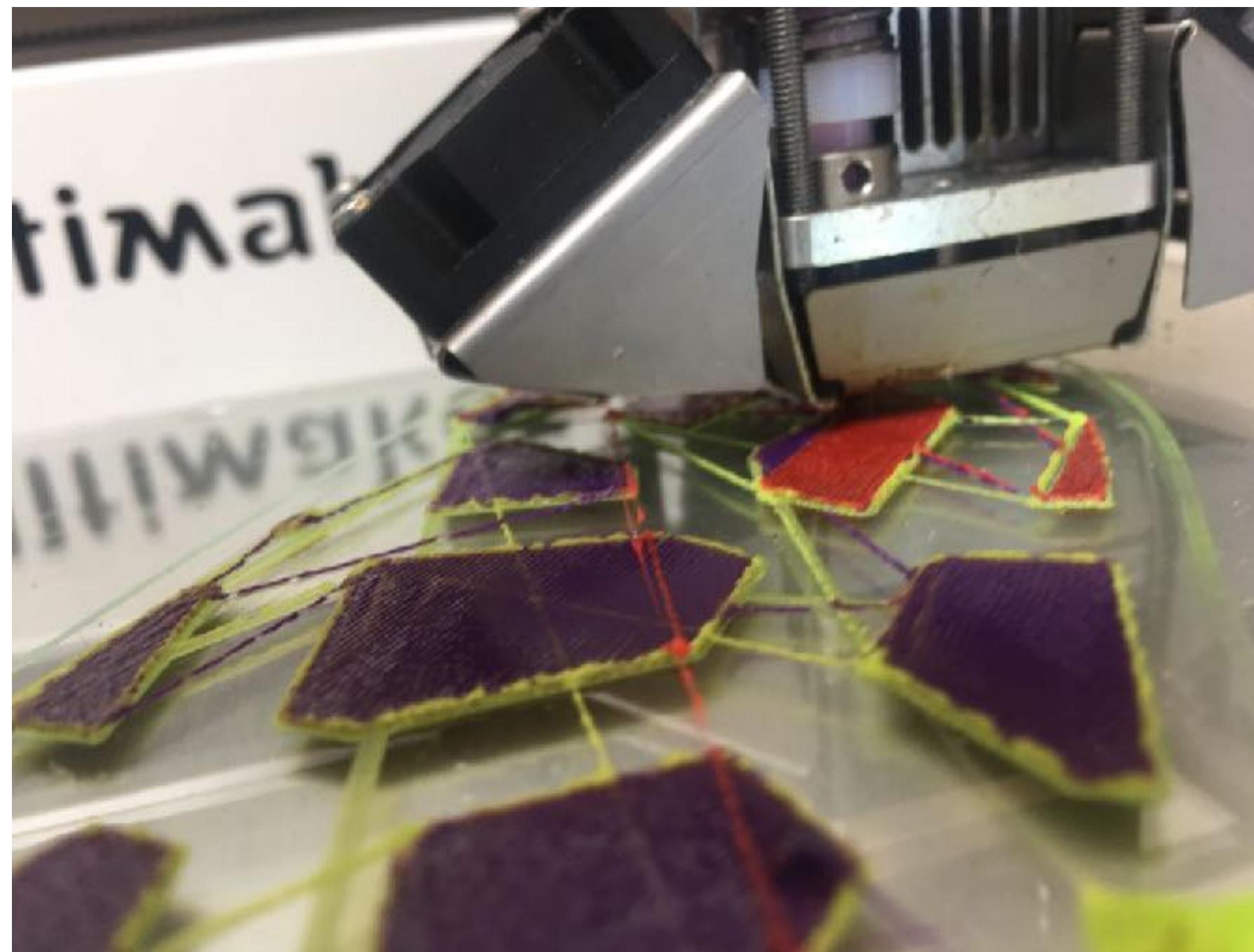
Process Data

Process Data

Pranzo

Alle 14:00 stampiamo

Multi Filament Bowden

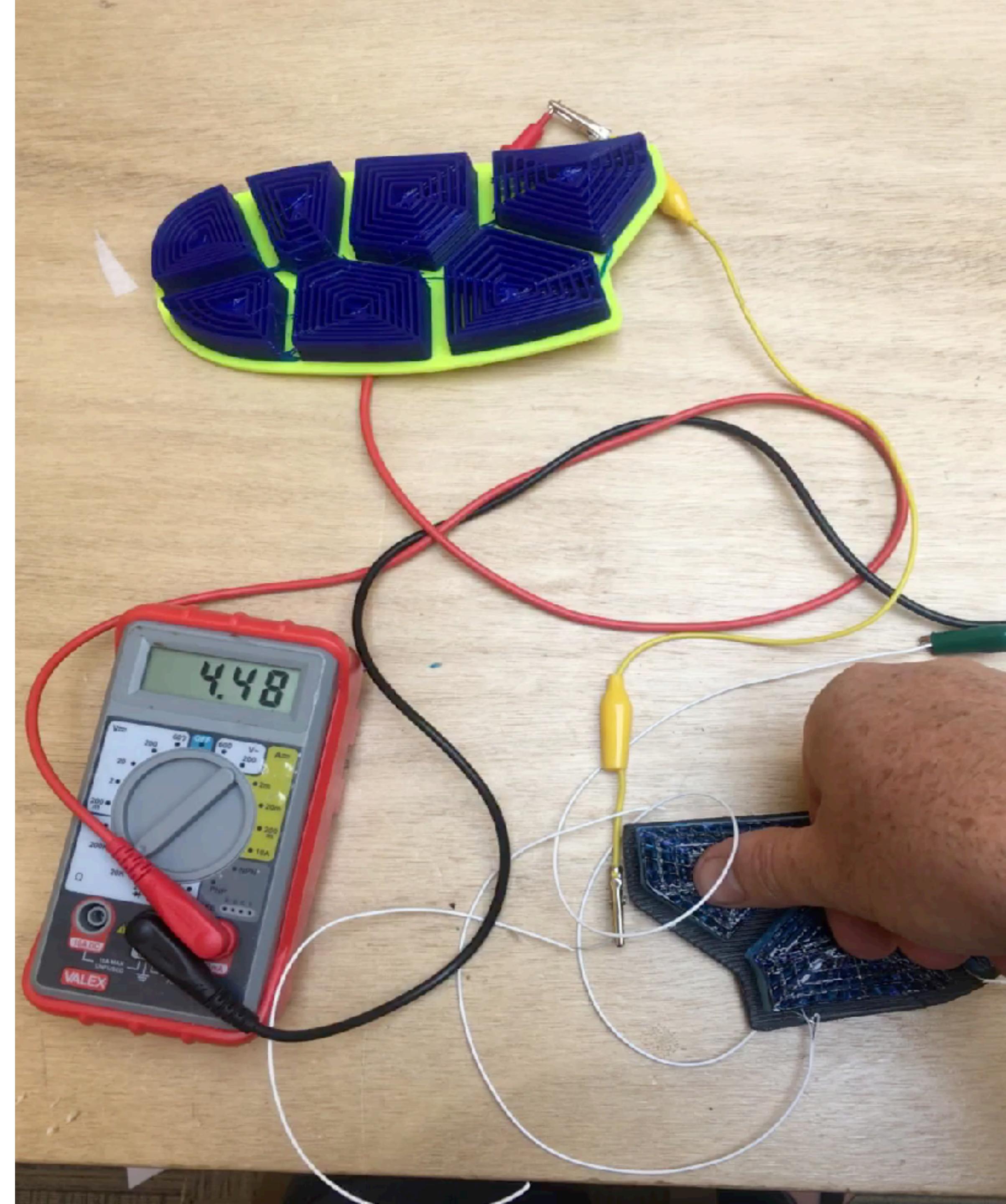


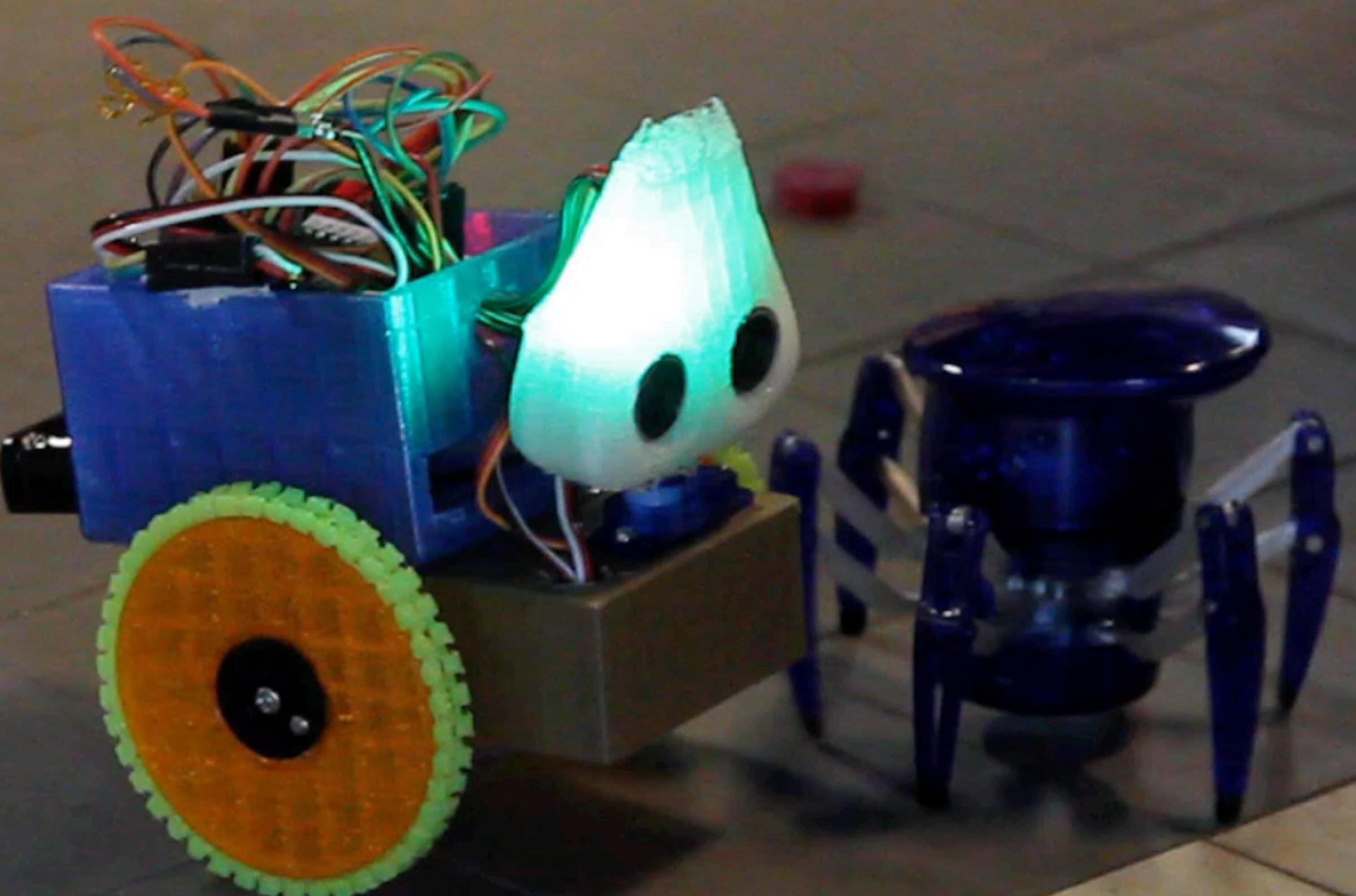
Electronic Textiles

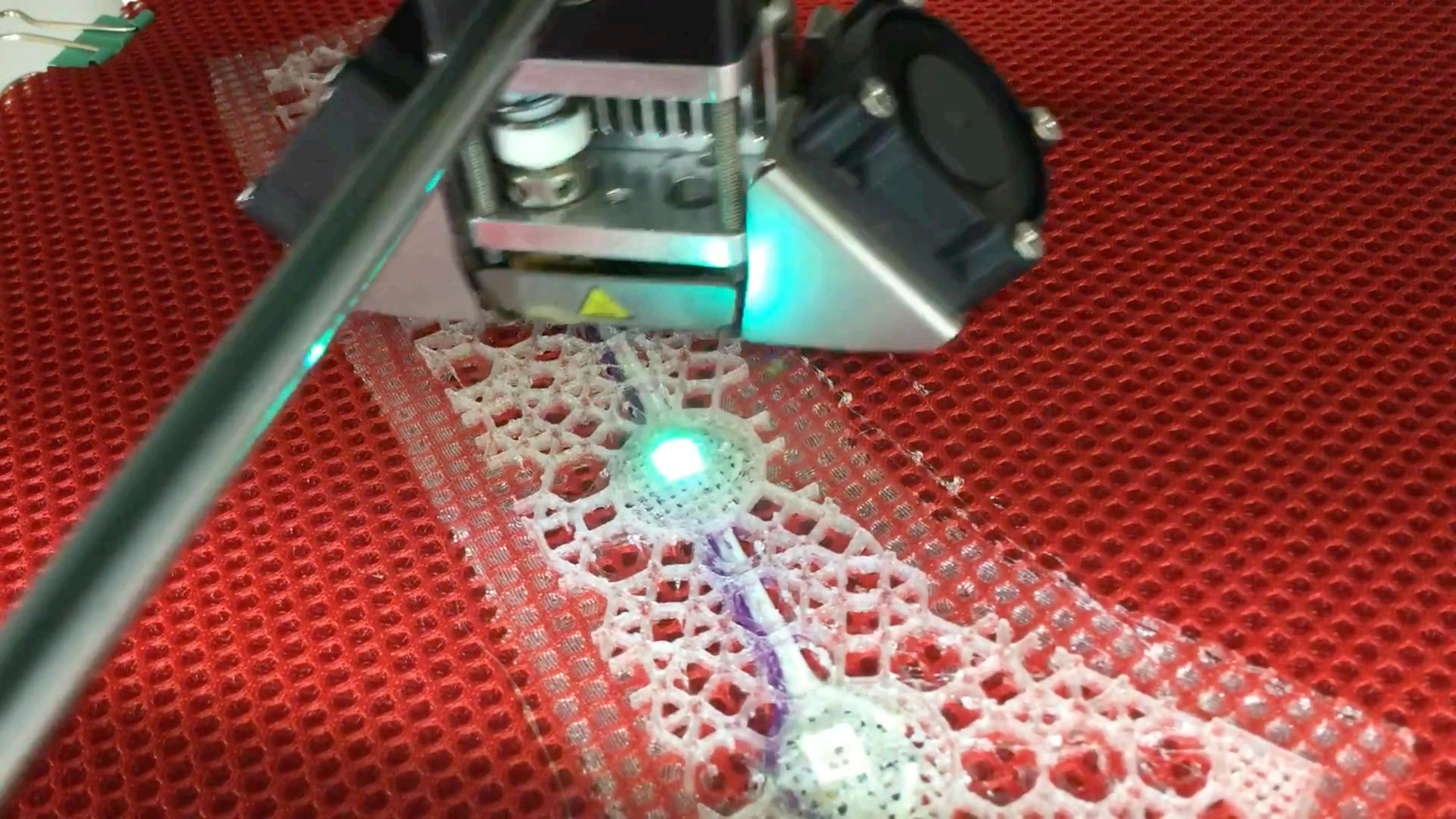
- Plug & Wear
- Energy Harvesting Textile



Sensor Printing

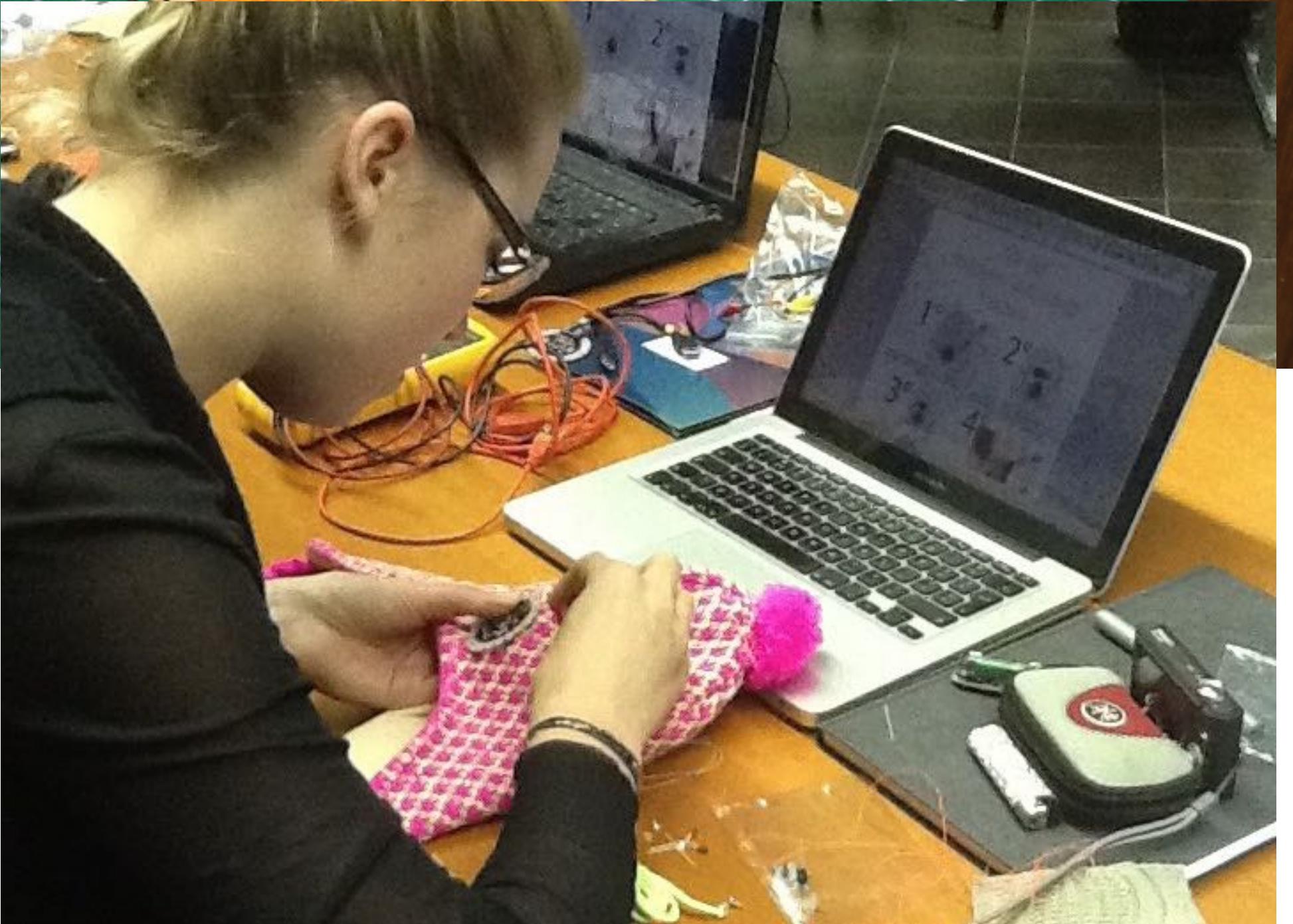
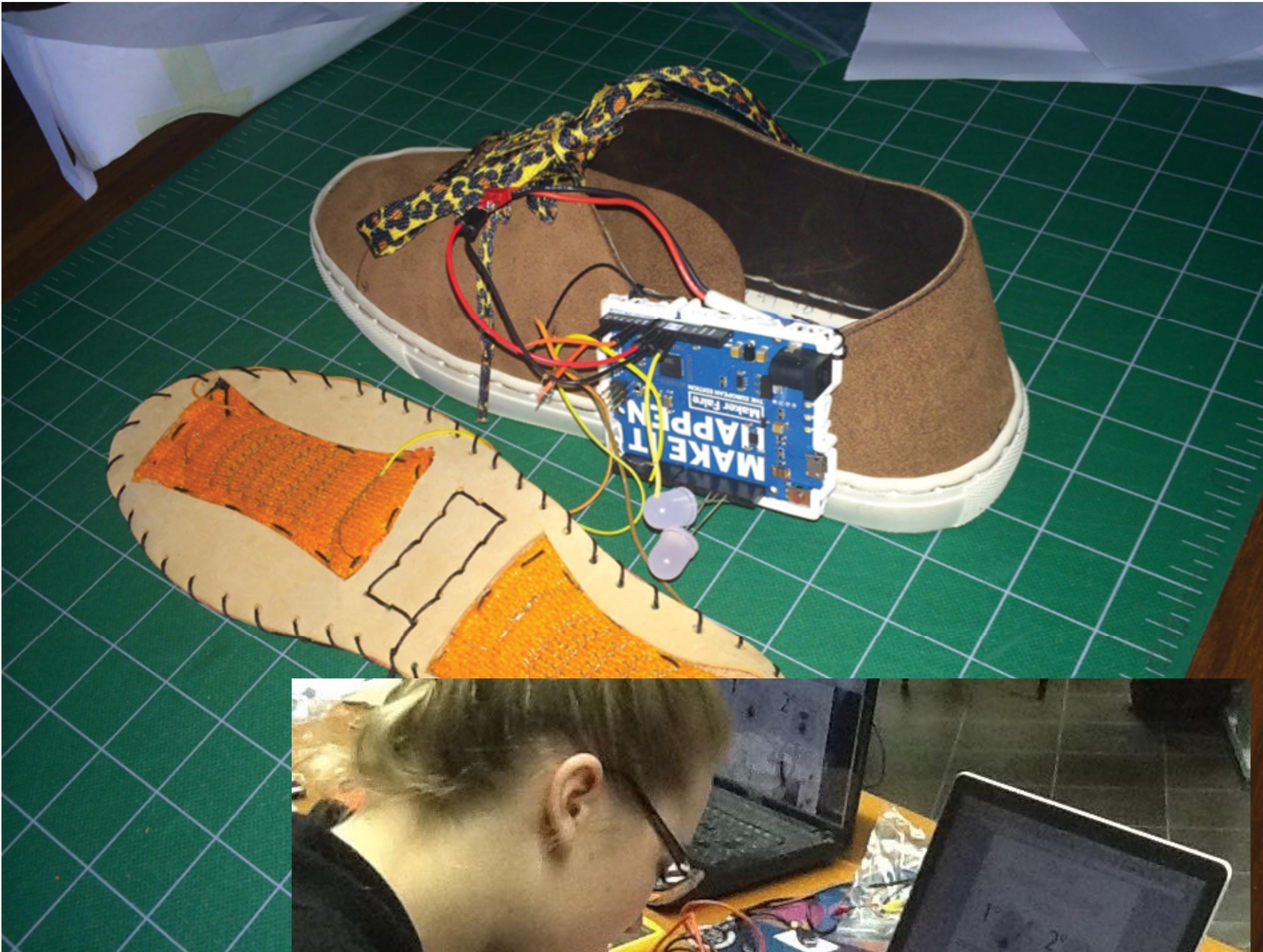






Maker workshops

- Code in Motion
- Wearables 4 Italy
- Maker Faire Rome
- Institute of European Design
- ISIA and Less is Next
- SUPSI



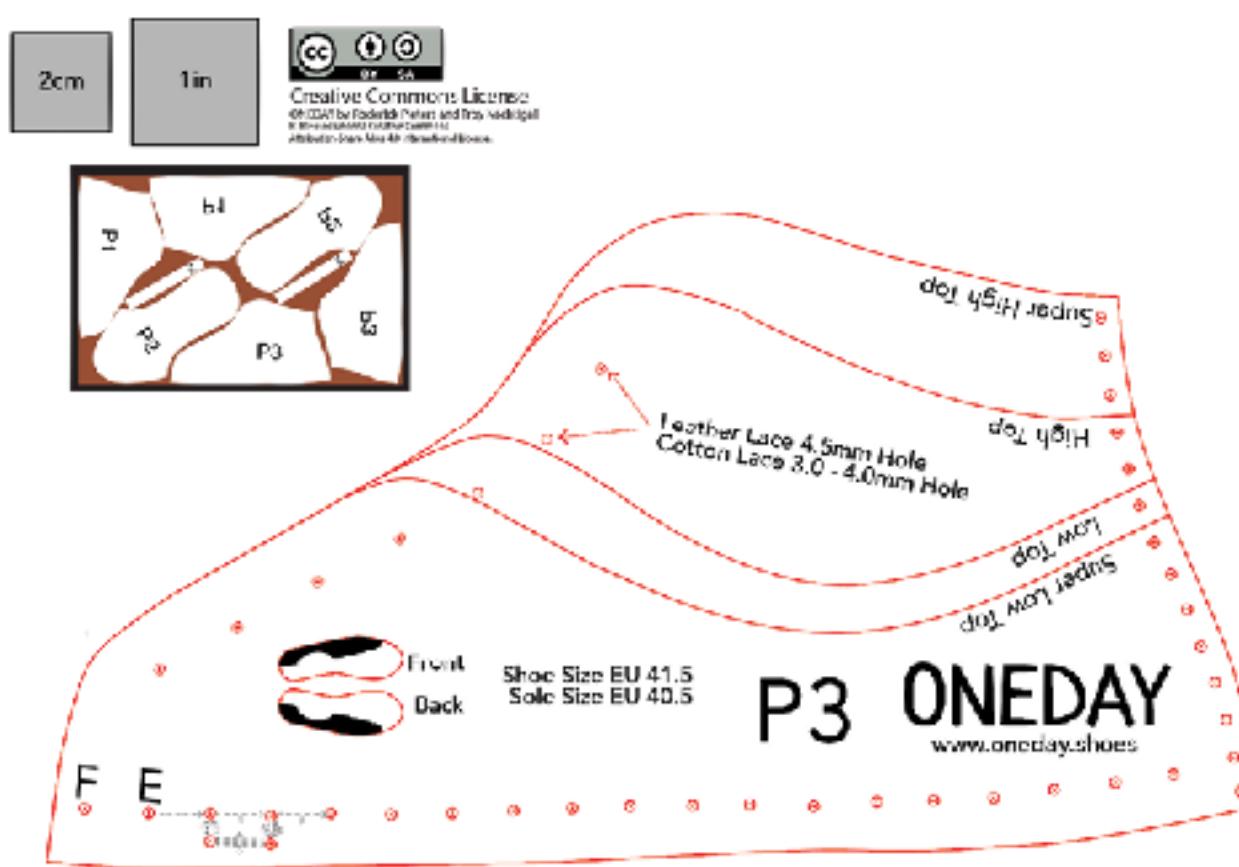
Spike



ONEDAY Shoes



ONEDAY
make your own sneakers





Solemaker



Sneakers



3D Print



Users



Soles



Design



Foot behaviour



Sensors



Algorithm



Social



Makers



Bounce



Fit



Weight distribution



Materials



Designers



Walking



Foot topography



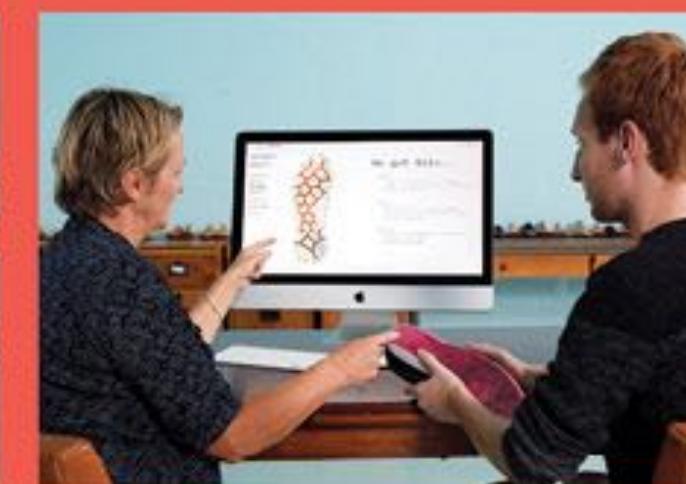
Podiatrists



Materialize



Most shoes are made to decades old shoe forms that are created for an "average" person. Solemaker starts from a scan of your foot shape and pressure data to create a sole unique to you.



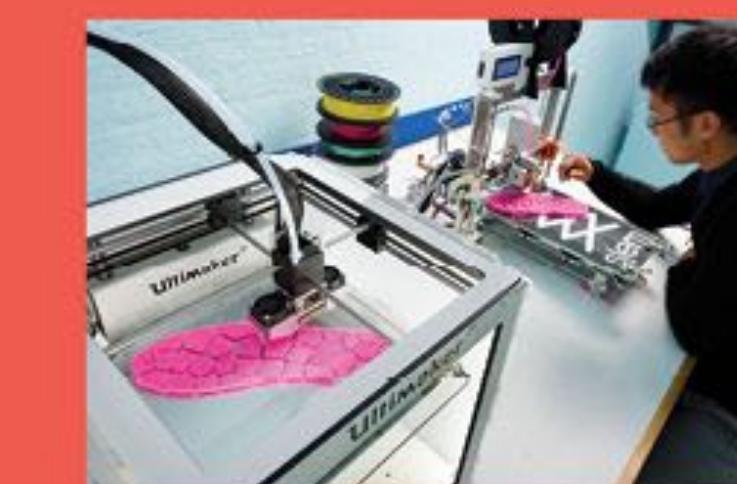
While some advanced shoe stores might look at how you walk, Solemaker invites you to think about how you walk and make changes to your sole. This might be you and your podiatrist, designer, maker or all together.



Beyond thinking about needs, Solemaker gives you the possibility to experiment and create sole designs that are uniquely your own. Using a series of algorithms, the sole is dynamically generated in real time. The files to produce your shoes are created straight from the data, no 3D file is needed.



These shoes were made to be worn. Rugged enough for daily street wear, we envision a future where Solemaker shoes can be seen everywhere. woow



While generic soles are made in far off places, Solemaker creates individual soles with dynamic densities created for you. Bypassing typical 3D software, Solemaker programs the material behavior by generating code directly. Using Filaflex, a robust yet flexible thermoplastic the sole becomes a flexible 4D platform.



The completed shoe is uniquely yours, yet retains a classic style. In our research we have already began realizing a near future where other styles of shoes from different designers can be made with the same system.



Assembly is easy. In an hour with needle and thread it is possible to sew them together without a last. A heat gun can be used to seal the edges of the shoe to prevent water from entering.



We didn't forget the whole shoe either. Solemaker creates the "Uppers" of the shoe as well. While this is often done in one design for millions of copies, Solemaker provides laser cutting files. This allows for materials that you choose from your maker community.

We want you to wear shoes made specifically for you. www.Solemaker.io brings you all the files needed for creating ultra-personalized shoes in your community. A scan of your foot shape and weight distribution serve as a start point to a series of shoes made to your feet, needs and lifestyle.

Solemaker demonstrates a look into a future where the shoes can be a subscription service and with each passing pair the wear will be measured and the material recycled to create a better fitting shoe. Each shoe is created with code that dynamically programs the sole material to the shape and weight distribution of the foot.

Solemaker allows everyone to make shoes at a FabLab or Maker Space close to them. We created www.Solemaker.io so that anyone anywhere can create a pair of shoes to be made locally.

Solemaker is created by:

- Troy Machtigall - Head Designer and Researcher, TU/eindhoven
- Prof. Dr. Leo Feijen - Professor, Design Intelligence, TU/eindhoven
- Dr. Stephan Wensveen - Professor, Wearable Sensors, TU/eindhoven
- Dr. Oscar Tomico - Professor, Wearable Sensors, TU/eindhoven
- Admex Shoenen - Electrical Engineer, /dseenz Lab, TU/eindhoven
- Bart Pruijzenboom - Interaction Designer, TU/eindhoven
- Henry Lin - Interaction Designer, Simon Fraser University
- Erwin Hoogendoorn - Programmer, TU/eindhoven
- Max Pinsky - Graphic Designer
- Fiona Basilio - Guru, FabLab Toscana
- Sigríður Helga Hauksdóttir - Podiatrist, SIKH Heelwijk
- Theodora Kyrgia - UX Designer, TU/eindhoven
- Ruben Lekkerkerker - Shoe Designer, SIKH Heelwijk

ArcInTexETN



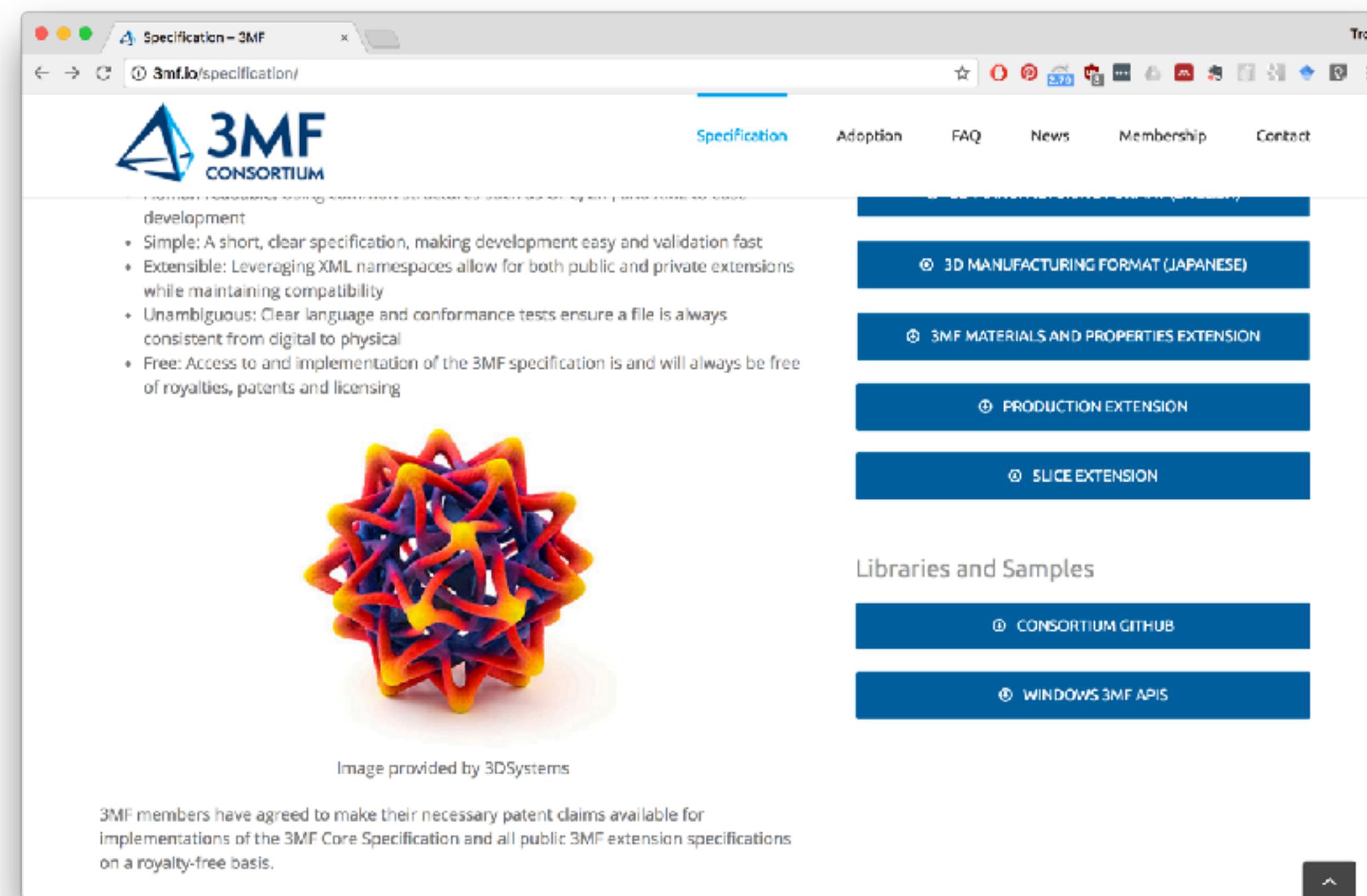
slem

DJ
DESIGN
UNITED

TU/e
Technische Universiteit
Eindhoven
University of Technology
Where innovation starts

3MF and Mosaic

mosaicmanufacturing.com/

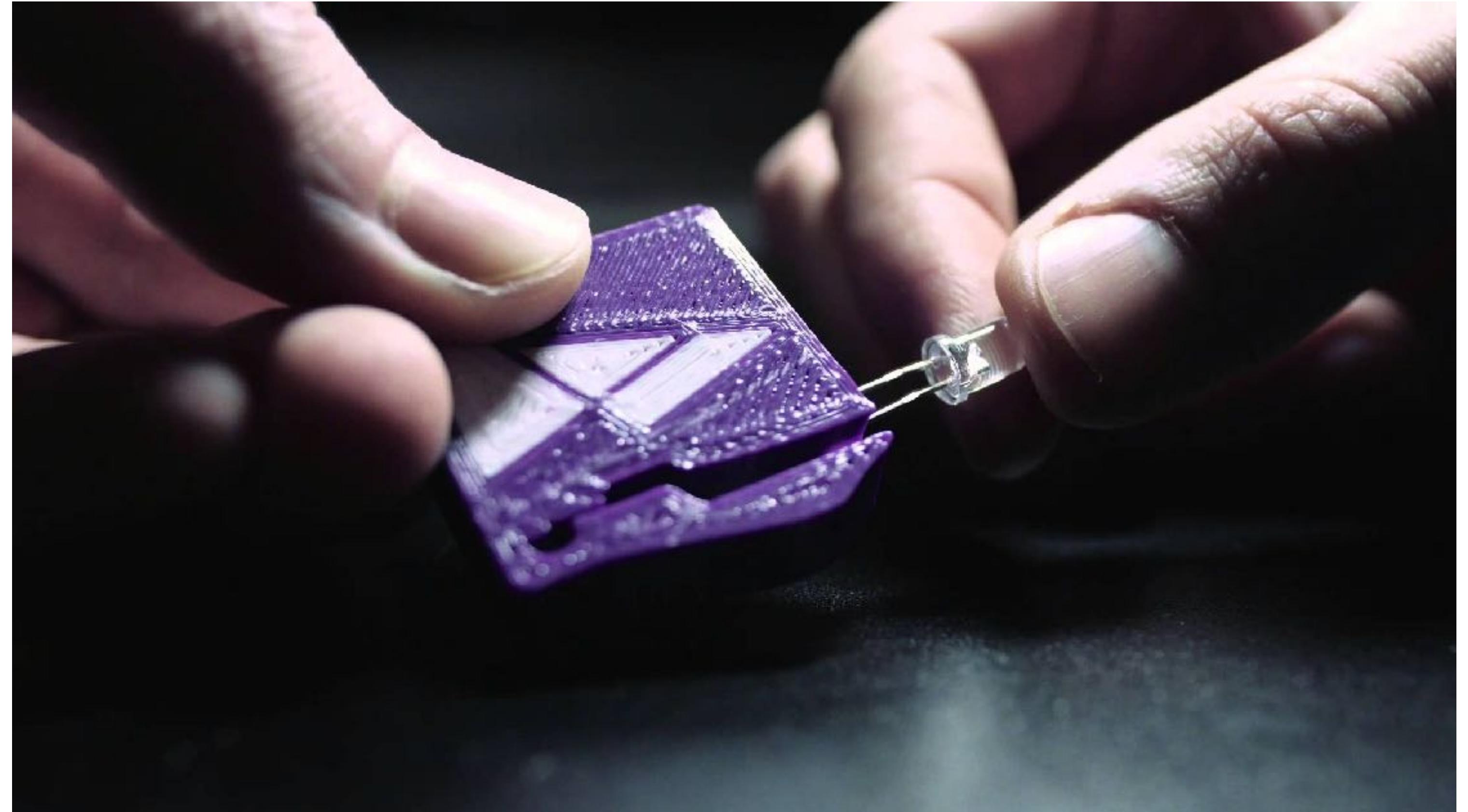


3mf.io



Flashlight

- Mosaic Printer



<https://www.mosaicmanufacturing.com/>