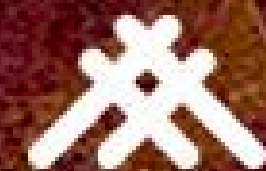


LoomOne

Everyones textile factory

The Condotier / Giovanni Bellini / 1475 – 1480



 aristarco

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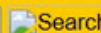
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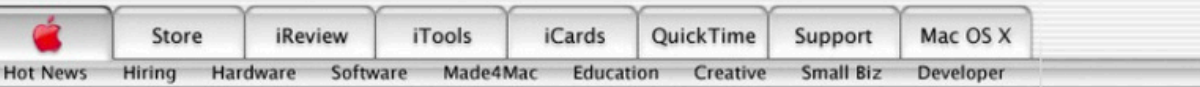
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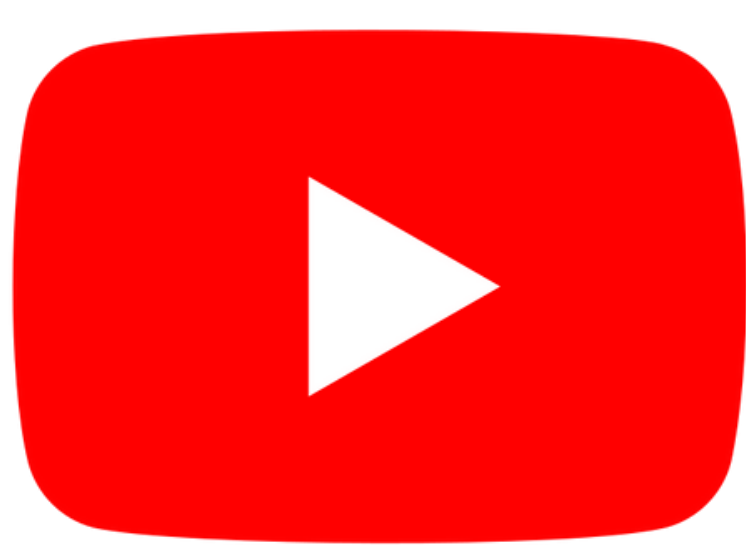
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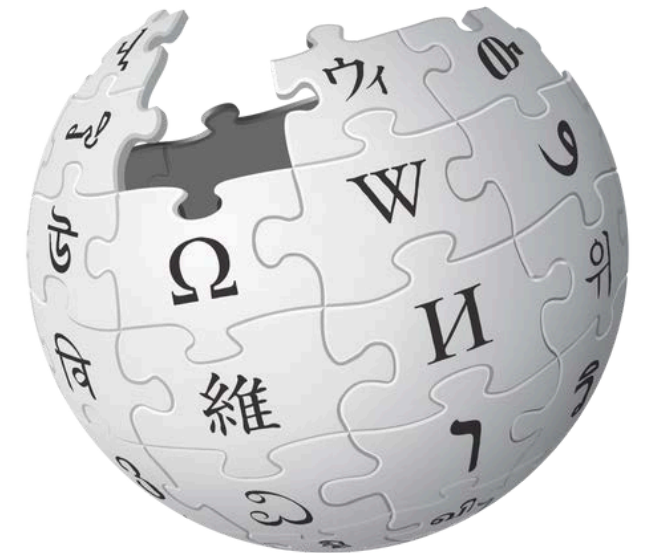
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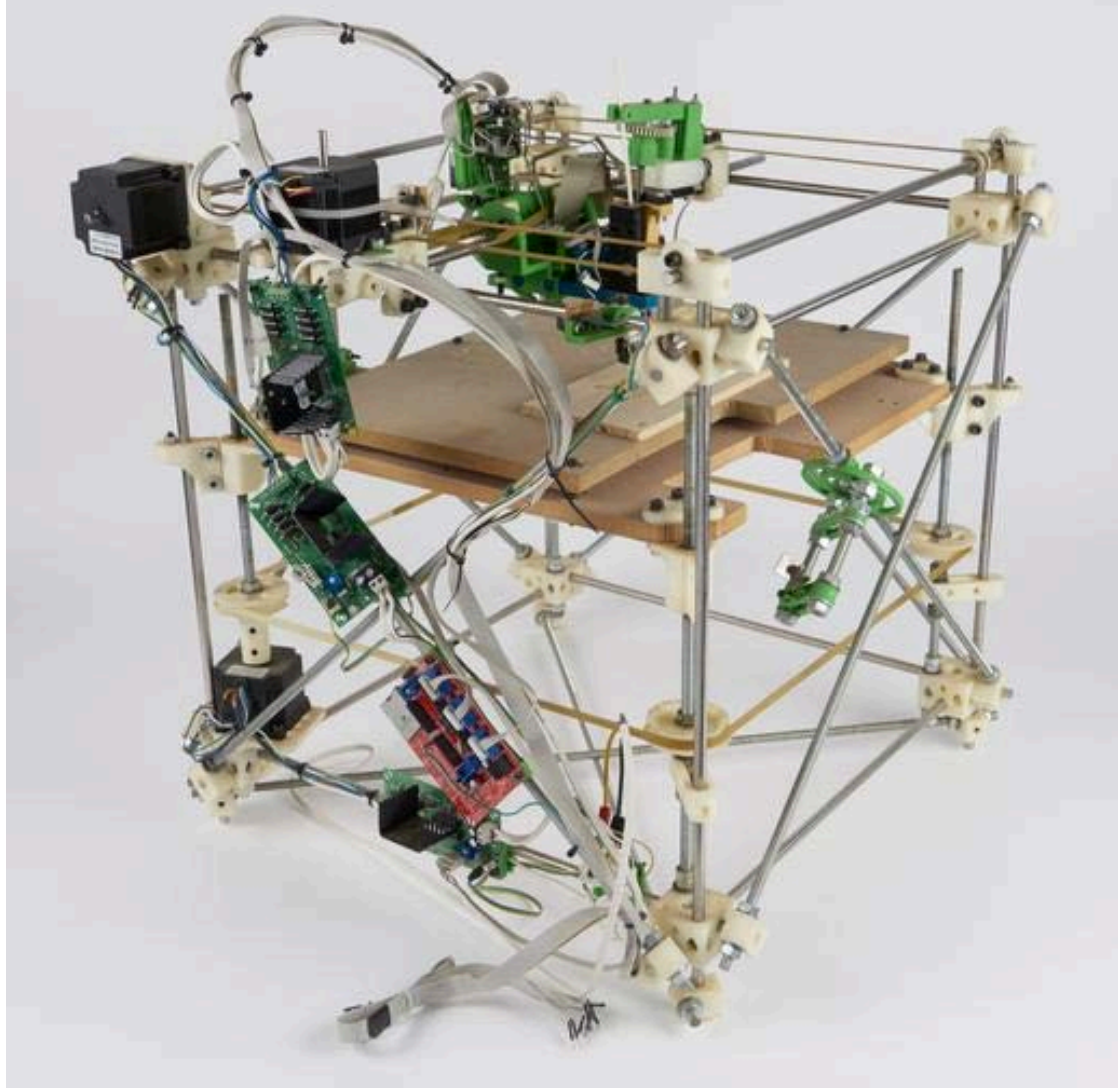
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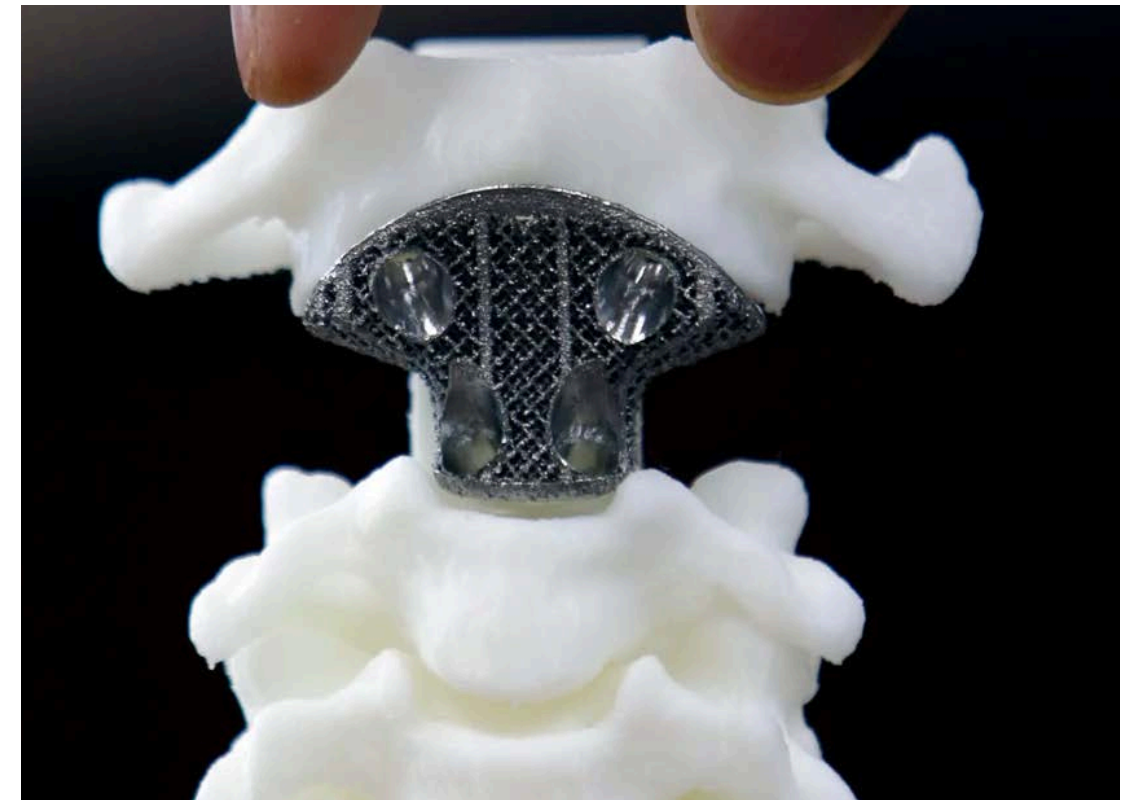


zoom



WIKIPEDIYA
Aşık Ençiklopediya





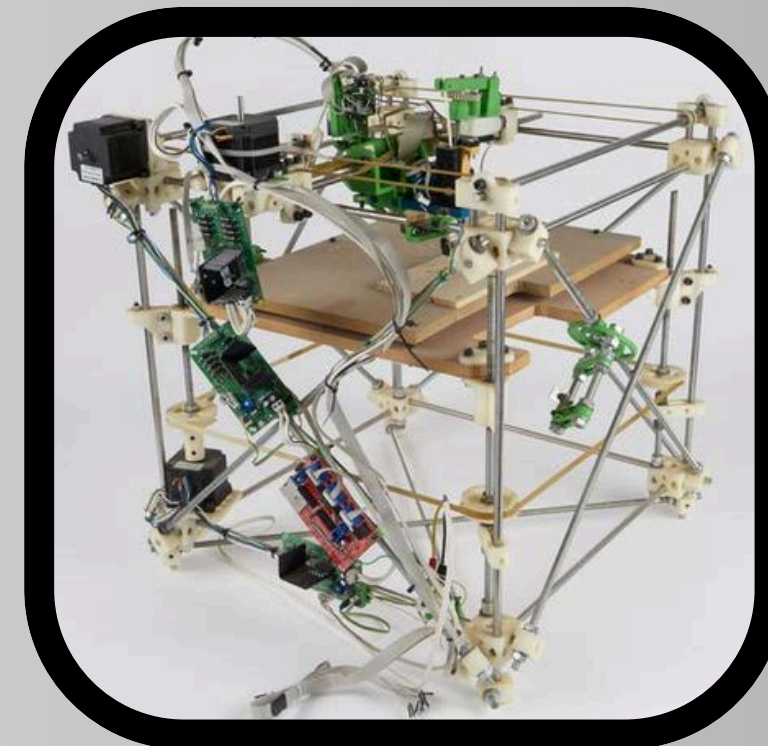
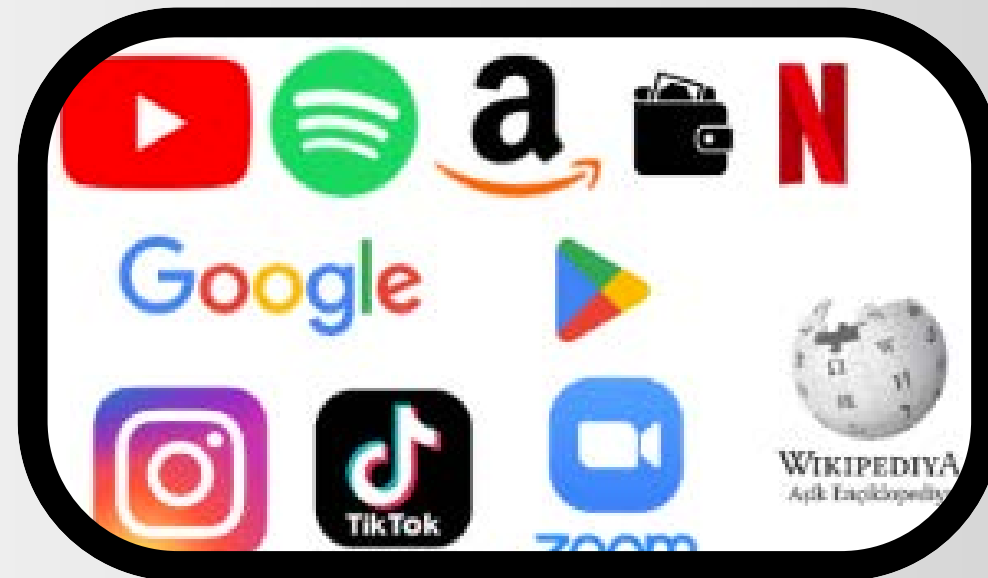
Open environment

Closed environment

Community prosumers

NO Community

Many players



Few players

Global accessibility

Hyper Local

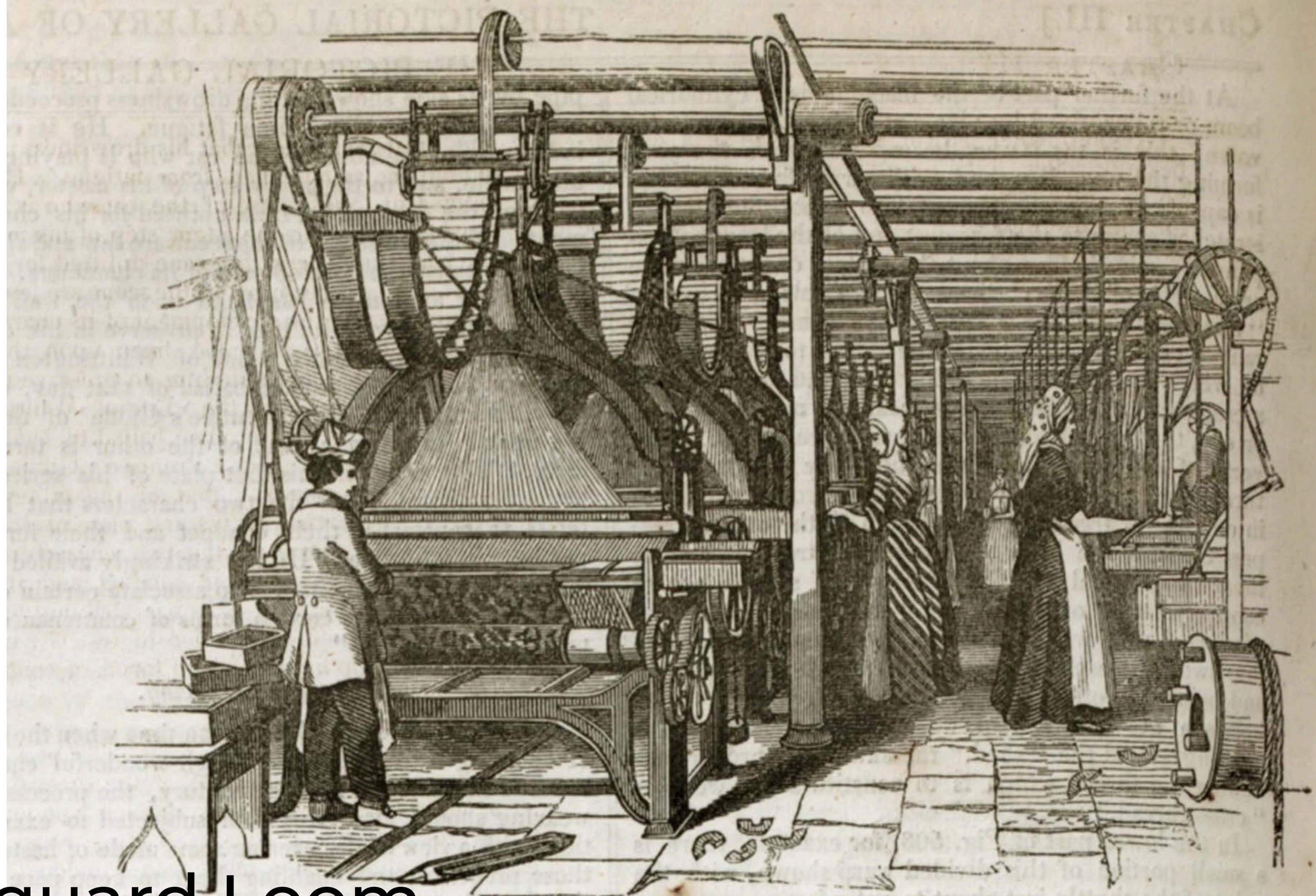
Many investors

Few investors





Jacquard Loom



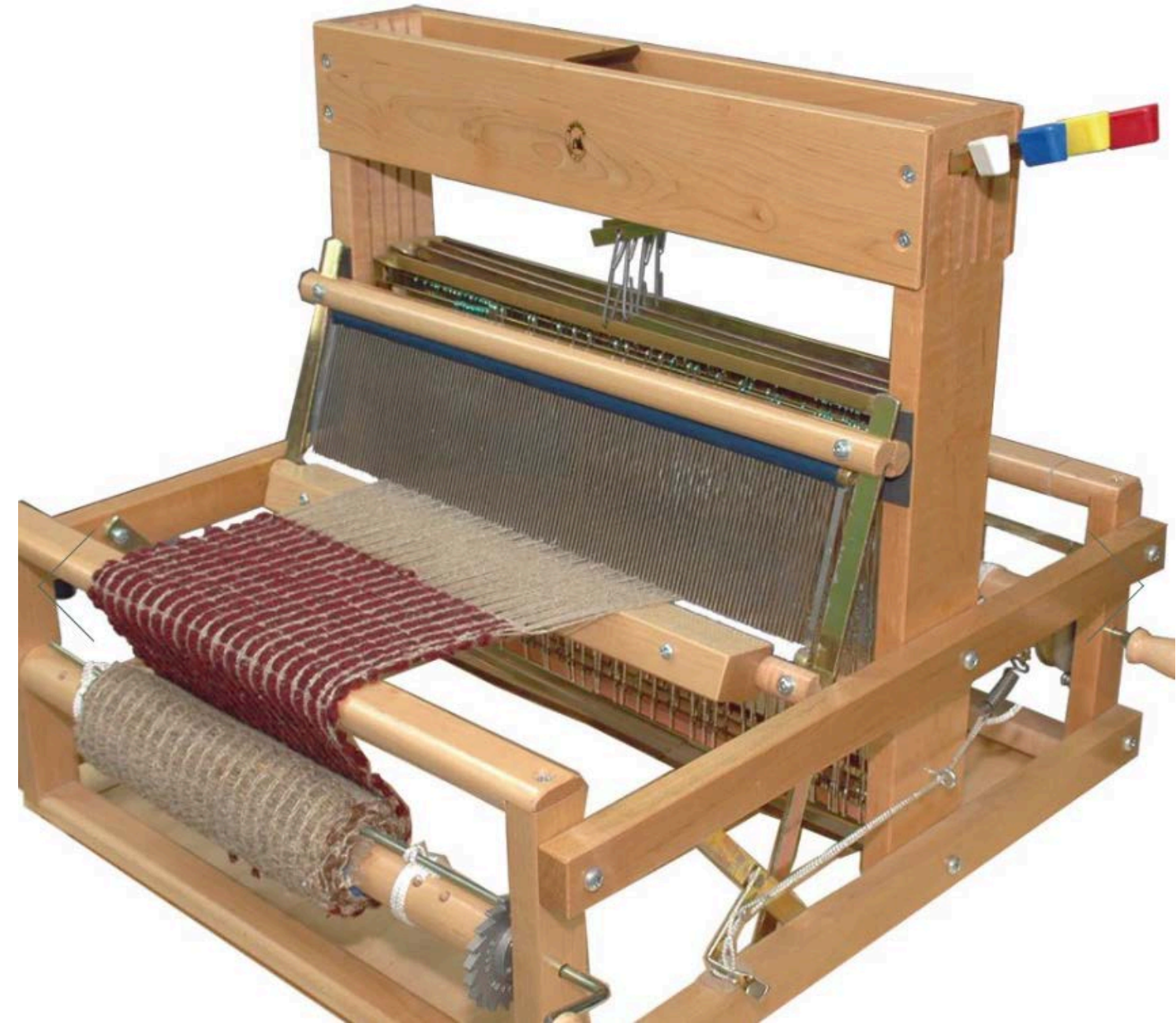
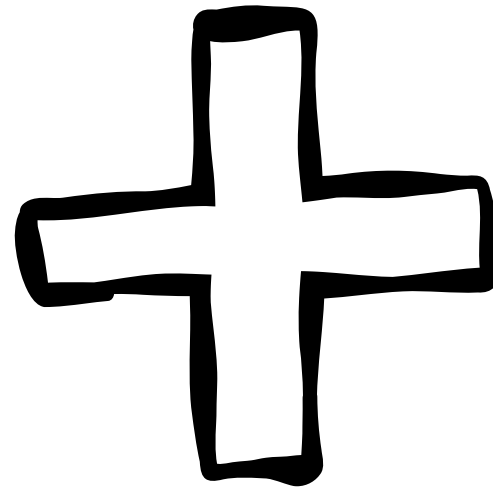
513.—Jacquard Power-looms: Stuff-manufacture.





How to **enable** communities that cannot access technical resources for fabric design and construction to have the tools to create, collaborate, share, and thrive in the field of textile design and creation.

How might we...



FAB LOOM 2.0



Servomotor

20 modulus of 4 servomotors, being a total of 80 servomotors with 2.5 mm of separation that lift the eyelets 7 cm allowing the openwork in the threads



Semiautomatic Fab Jacquard loom

Tissue sections

The way of form the tissue is dividing it in 5X5 sections threads weaving at least 1 thread in each line of the section following a non continuous pattern.



Reed

It's a lasercutted reed that press the threads against the warp to ensure the tissue



Guide

laser cutted guide to hold the warp in order to start the tissue an ensuring the correct position of the threads



Gear mechanism

This mechanism allow the rotatory movement only in one direction unless you release it to slacken the threads



Warp

Set of perfectly ordered threads that forms the warp



Eyelet-spring-thread

Lead the threads up or down of the warp depending on the signals of the microcontroller



Octavio Muñoz Sandoval | FAB ACADEMY 2016

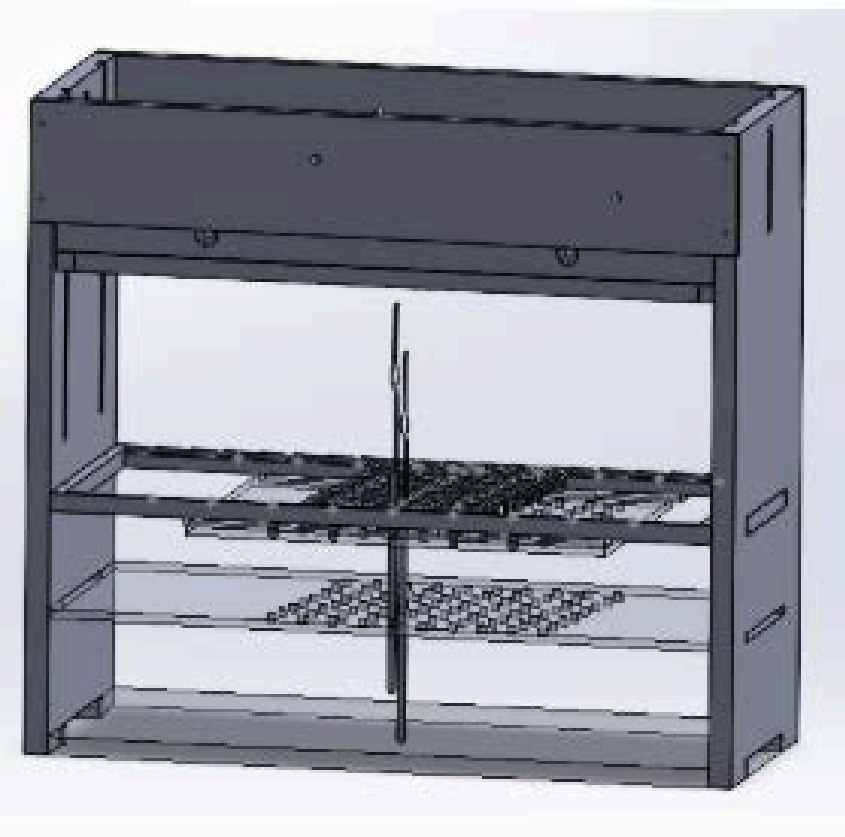
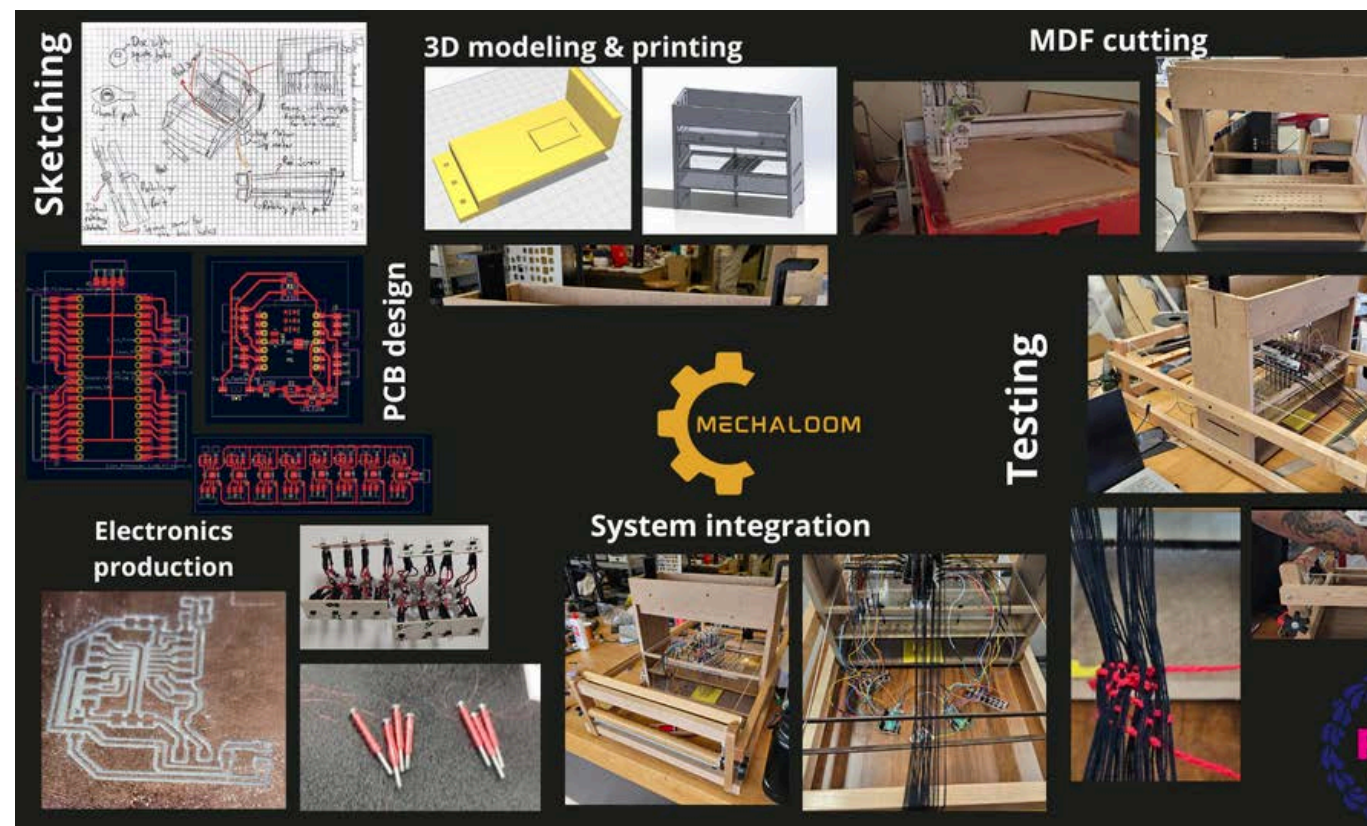


Digital Fabloom

Fablab Puebla

Franco Robredo Breton

This Loom controls individual headdles using electromagnets so a digital design can be woven into a cloth.



Loom One

Change state 40 millsec, energy needed 19 milliamp instantly

State change is estimated at a rate of 1,300 threads per second at 1 amp energy demand. Meaning a 40 cm loom can change state in 0.12 sec

4 threads per cm in the current stage; targeting up to 12 threads per cm, this is a fabric similar to the 32-count embroidery linen.

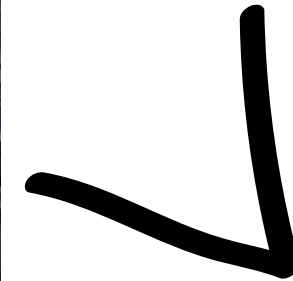
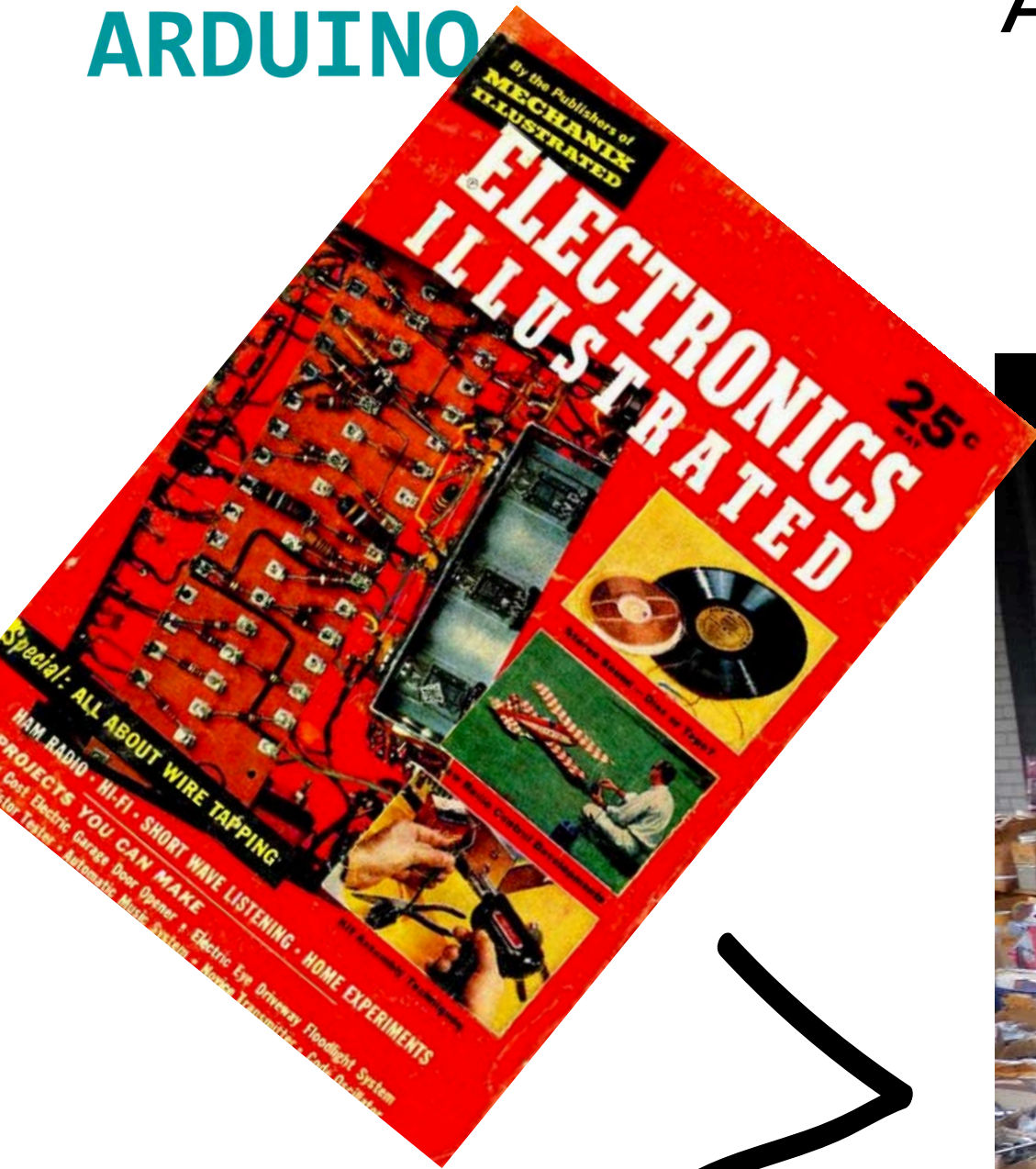
LoomOne

Value proposition

Our initiative supports a textile design community through a low-cost semi-automated jacquard loom, immersed in an ecosystem with courses, community-created designs, creation of other hardware, and everything needed to experiment and create awesome pieces of fabric



Customer journey before Arduino



Community



Design

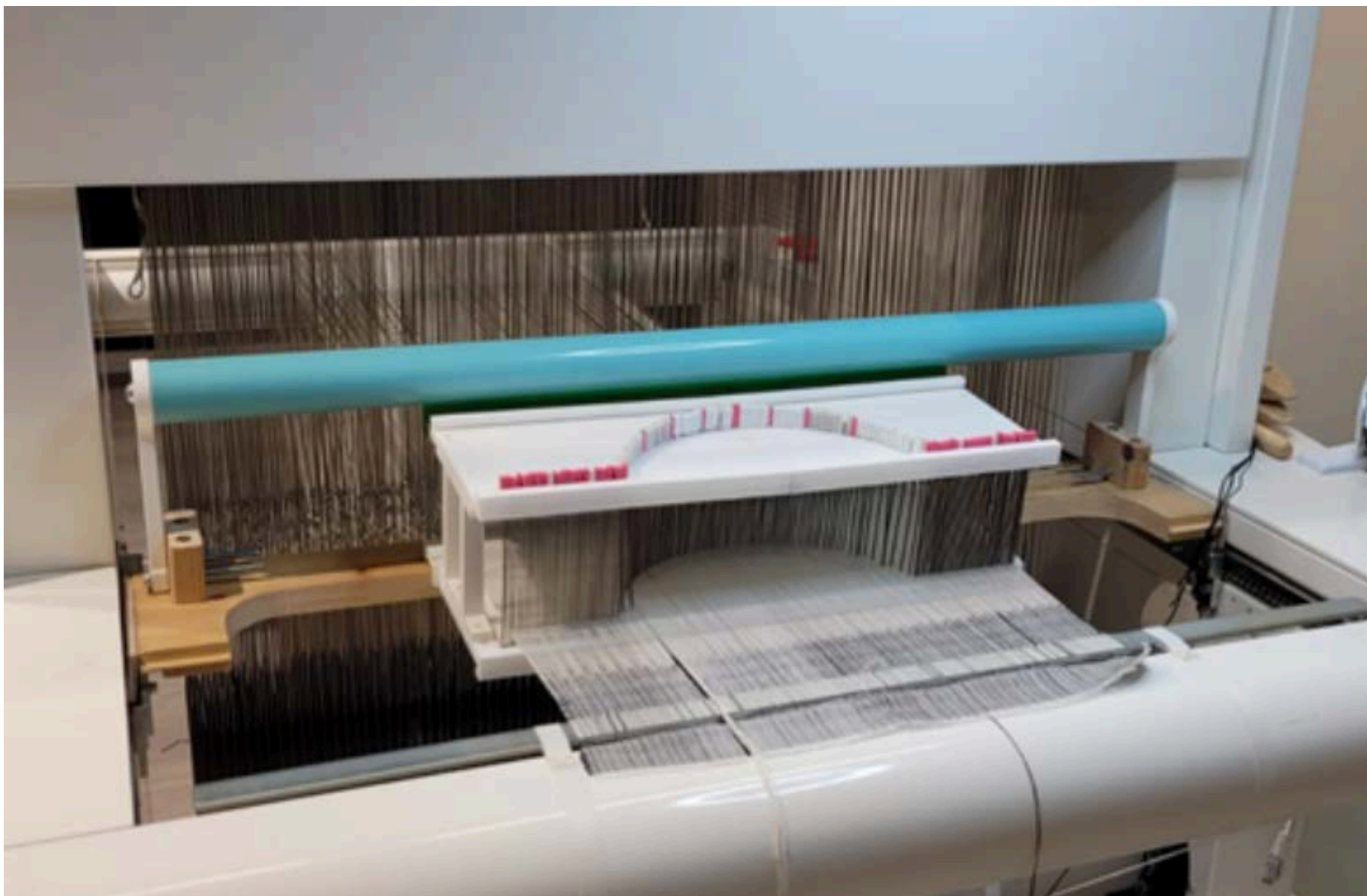


Brocaded electronics

Experiment



Textile intersections



A VARIABLE WEAVING REED FOR PRODUCING 3D AND SEAMLESS GARMENTS

Cnaani, Gali; Sterman, Yoav

Faculty of Architecture and Town Planning, Technion, Haifa, Israel.

<https://dl.designresearchsociety.org/cgi/viewcontent.cgi?article=1013&context=textileintersections>

Gráfico

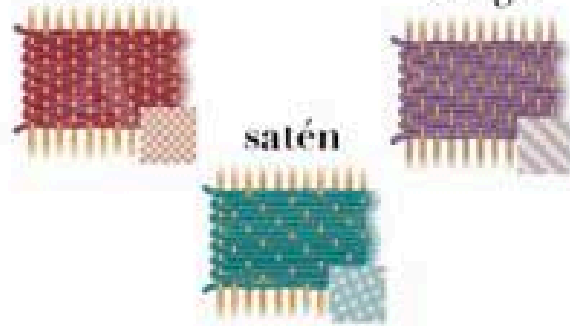


Ligamento

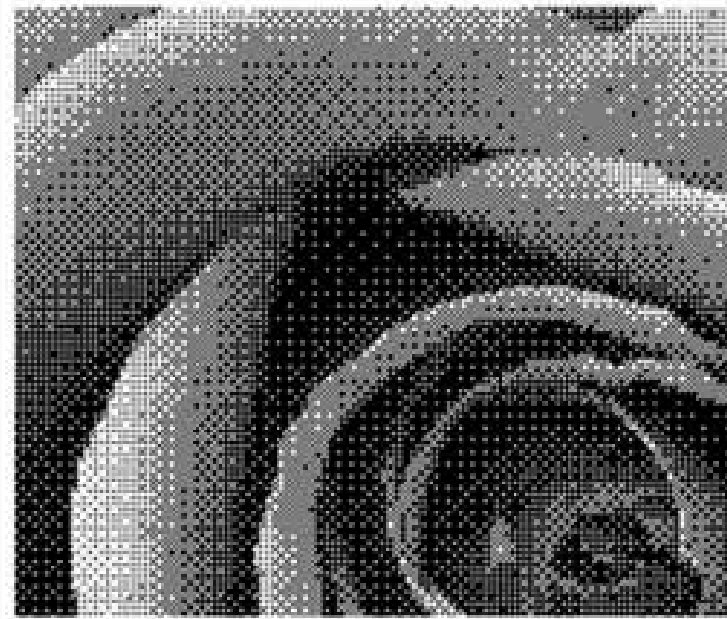
tafetán

SARFSA

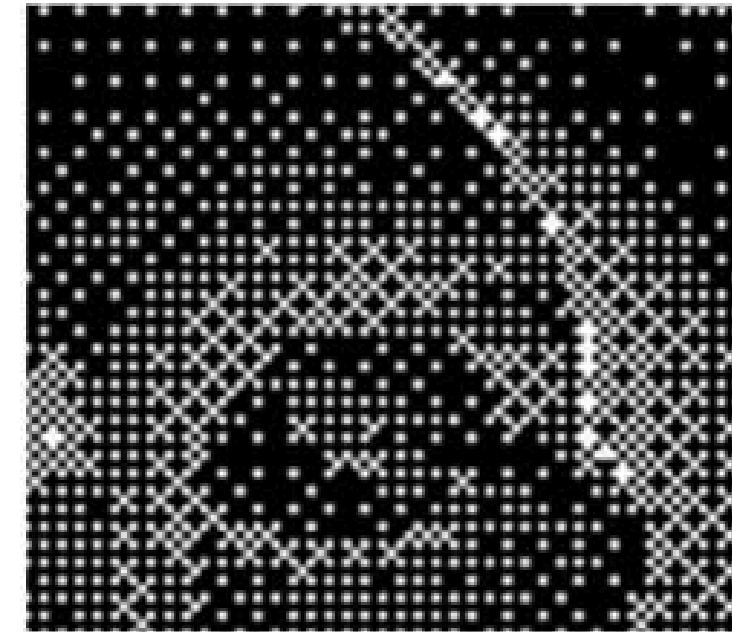
salén



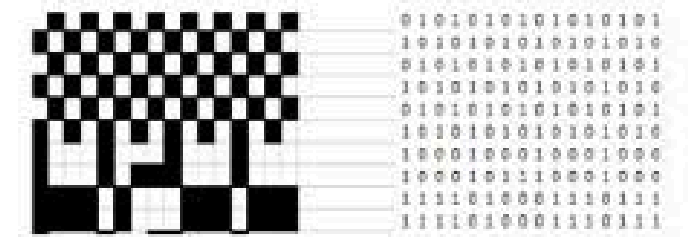
Diseño del textil



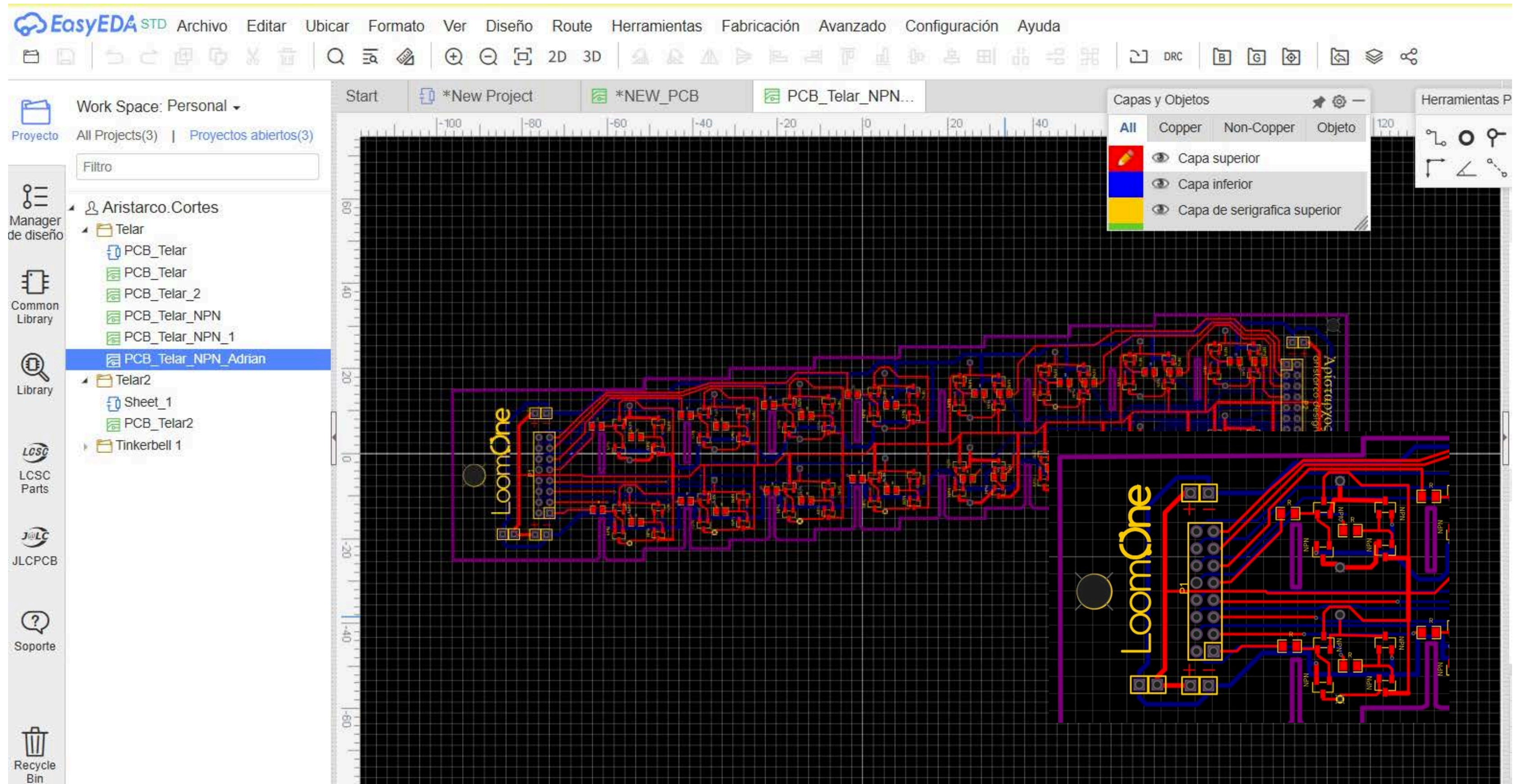
Mapa de Bits



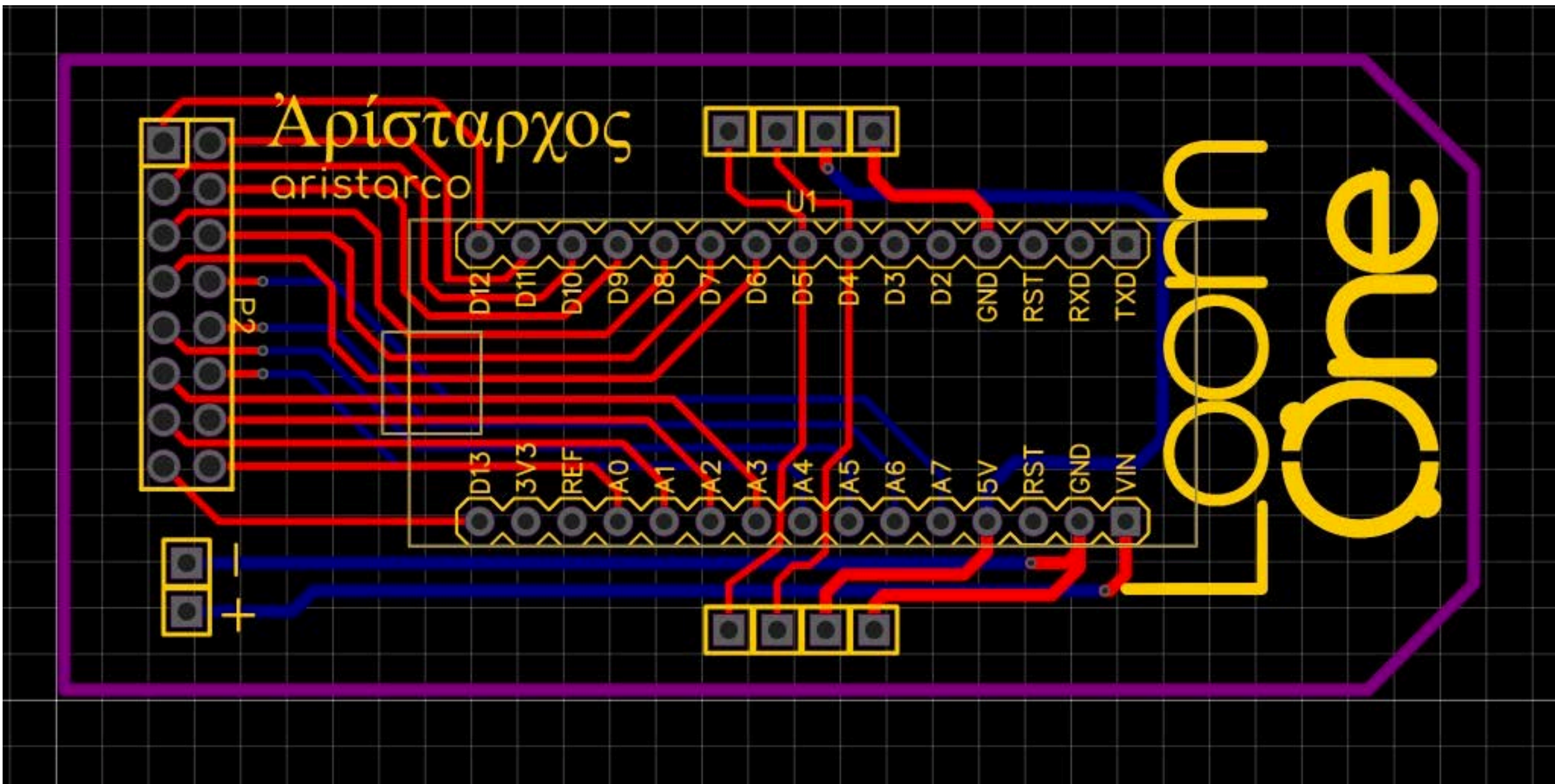
Acondicionado

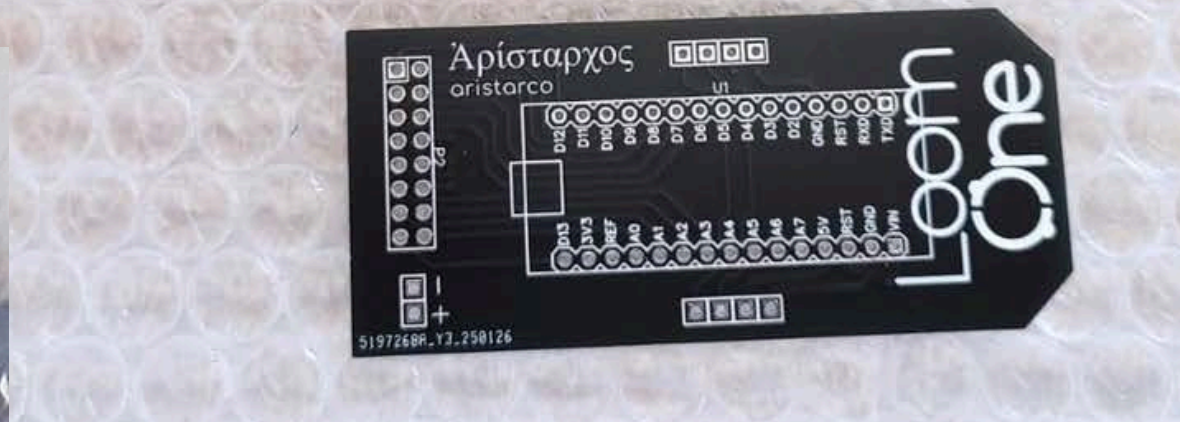
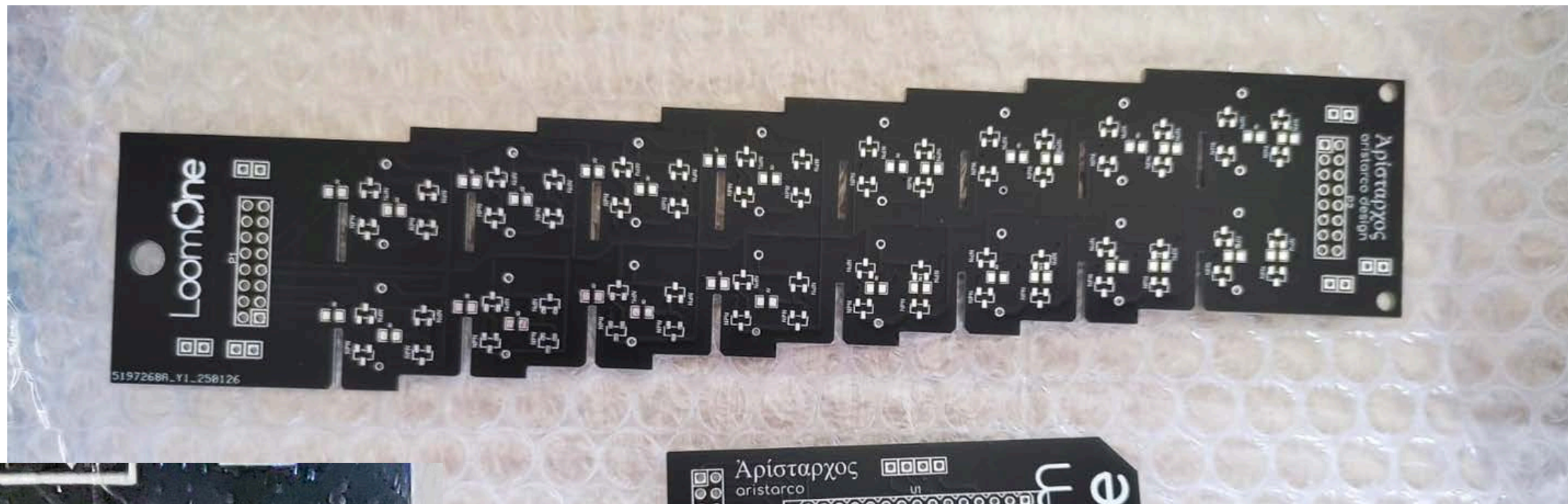


Matriz de Bits

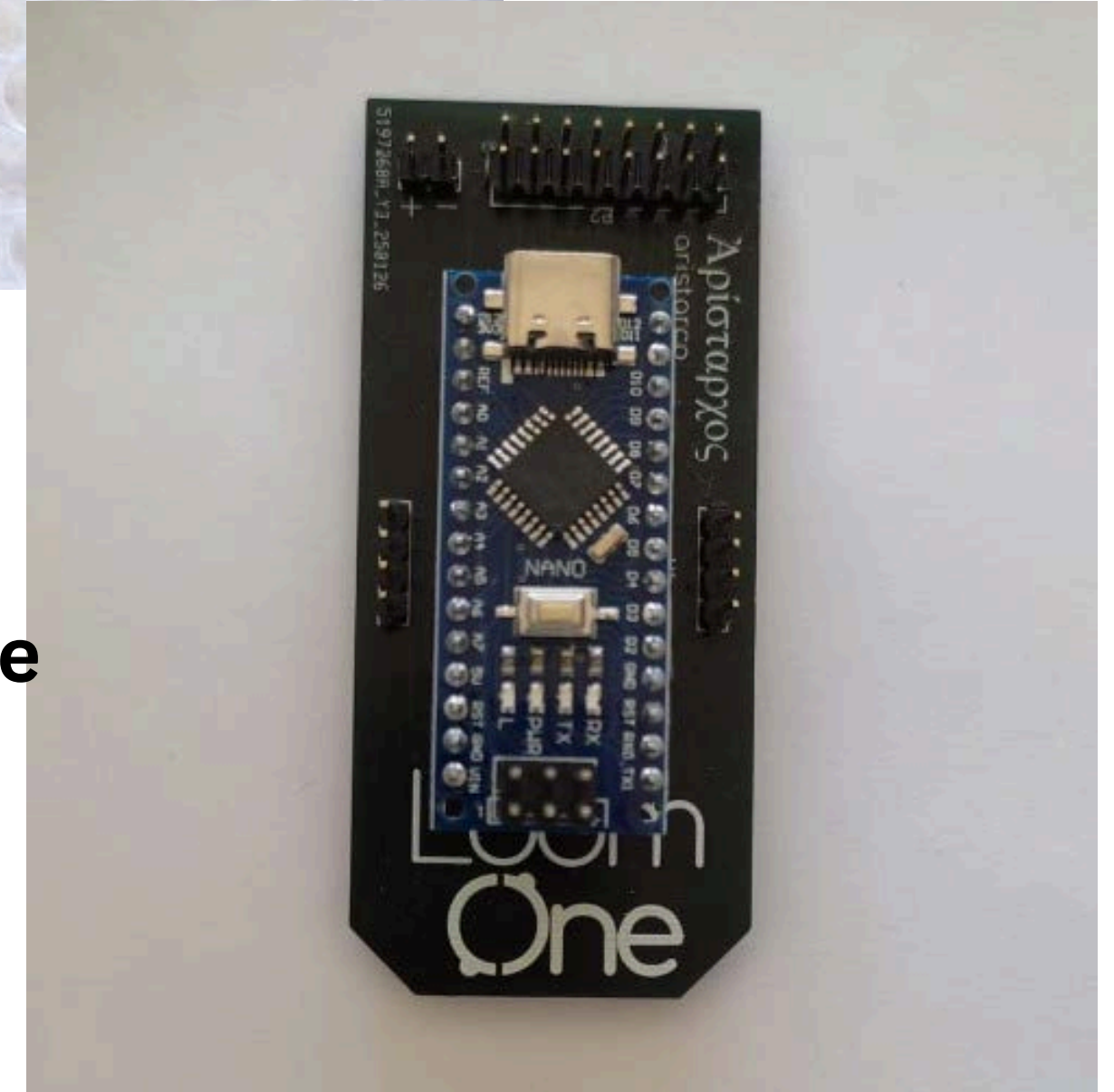
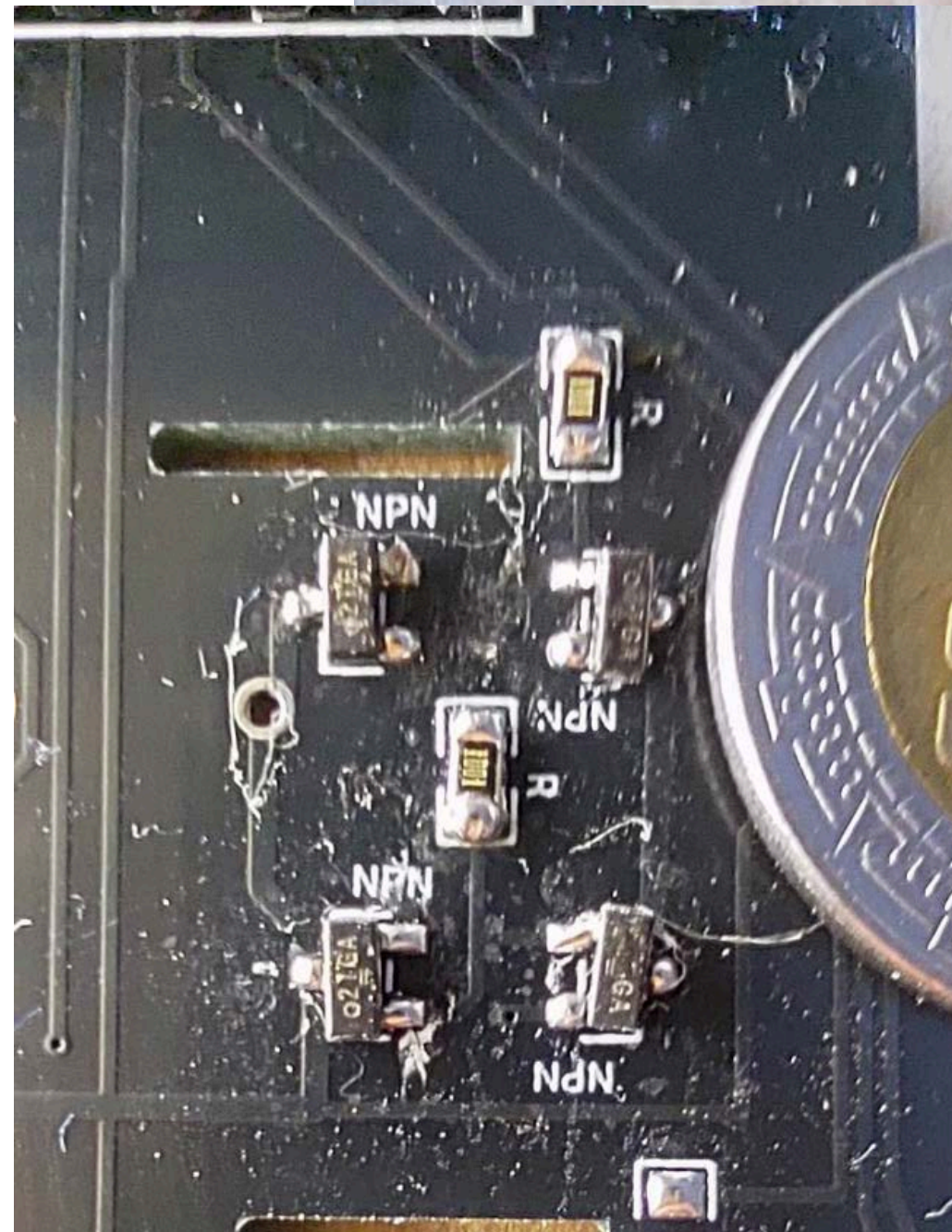


The control electronic board for each of the actuators that select the meshes was made with an online program called Easy EDA

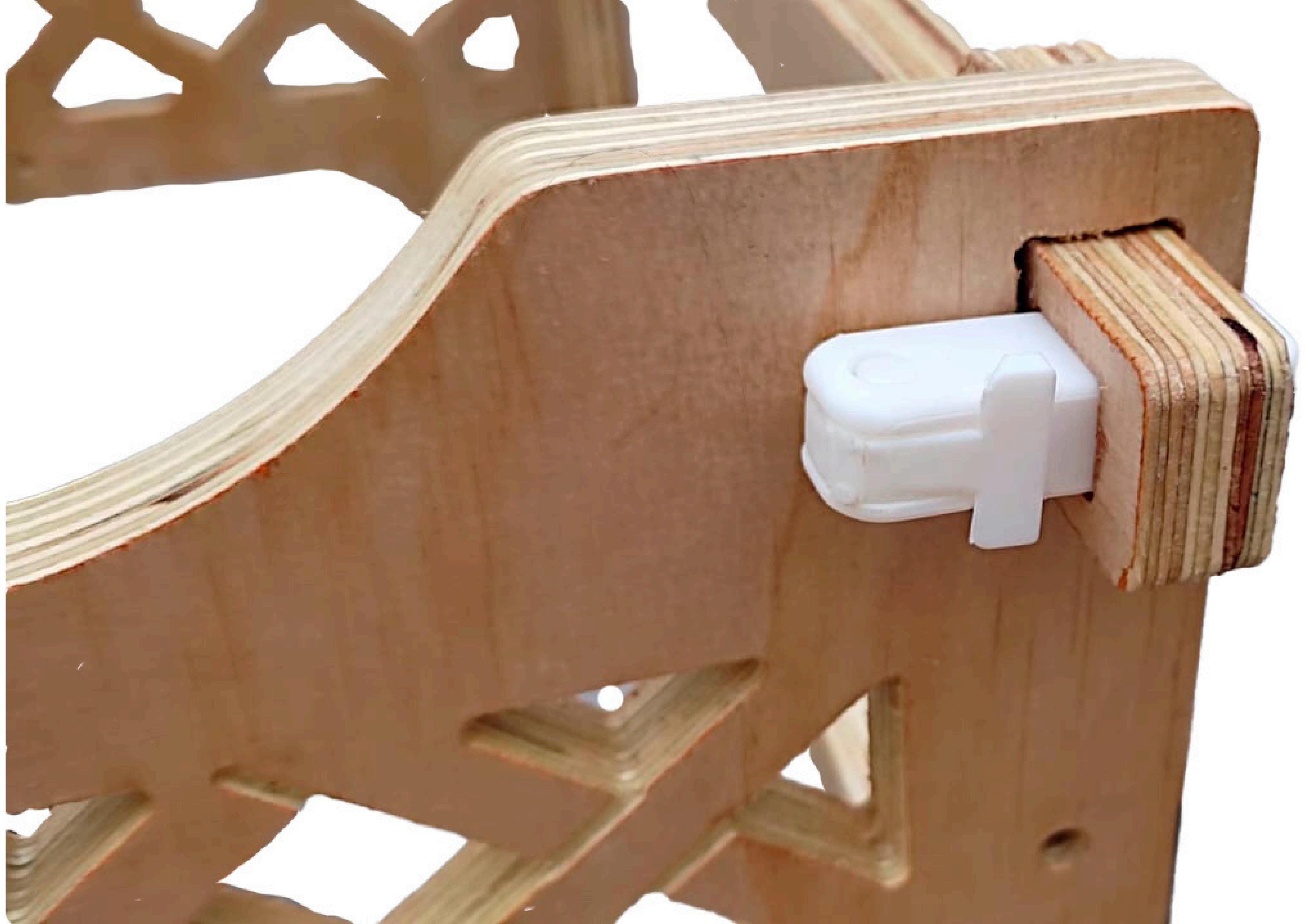




**The electronic boards are
already manufactured and
ready to be connected to the
actuator board**









Stay in touch with us at

<http://TheLoom.One>

November 20th, Kickstart