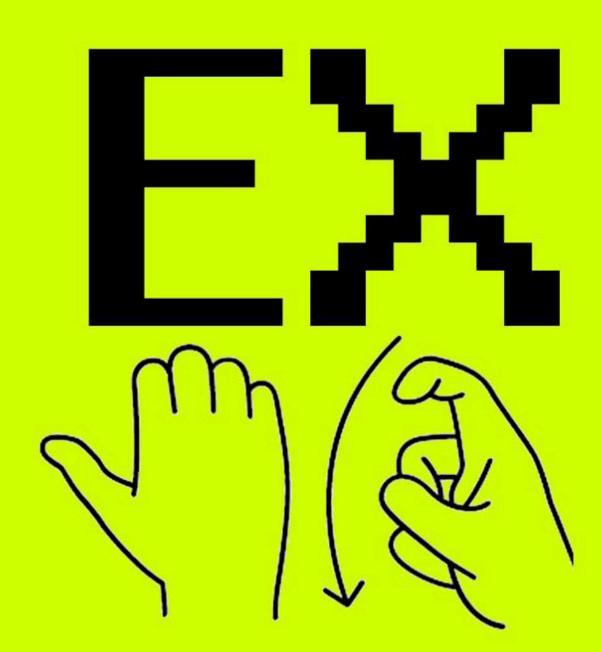
# EXando una mano Autofabricación colectiva de prótesis en código abierto

¡Hola!



## ¿Cómo surge Exando una Mano?





## ¿Qué alternativas hay?



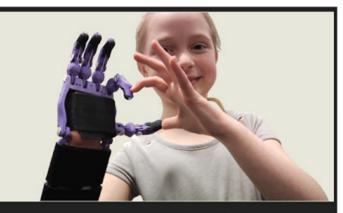
#### OUR MAP OF VOLUNTEERS ACROSS THE GLOBE.





66 Awaiting a quote...

99 -R Ortiz



e-NABLE began when a propmaker from the USA collaborated with a carpenter from South Africa to create a 3D-printed prosthetic hand device for a South African child. Then they put the design on the internet so that their it could be used and adapted for anyone, anywhere.

e-NABLE has become a world wide movement of tinkerers, engineers, 3D print enthusiasts, occupational therapists, university professors, designers, parents, families, artists, students, teachers and people who just want to make a difference.

Today, e-NABLE specializes in "helping hands". But lots of underserved populations around the world could benefit from, and contribute t.o e-NABLE's scalable model of non-commercial crowdsourced research, development and service.

> There's a lot to do. Give us a hand!



Organizational Support Team



Growth Mapping

Social Media

Process Improvement

Event Planning

Recipient Assitance

Research & Development



Weekly meetings with world

wide contributors! Join us!

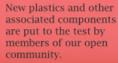
Members are available to

answer questions

regarding process or

fulfillment of a device.

Material Testing 👯 Device Development





Teams self-organize around problems being reported and are quickly expanding in to improved, mechanically driven devices as well as alternate limb assistance.



Software Development

Software is actively being created to guide recipients, to aid the increasing number of self appointed fabricators willing to assist around the world within our community as well as to facilitate home printing.

Community Sharing



**New & Exciting** Technologies

Future Device & Process Planning

Shared Experiences

World Interaction

Professional Involvement

Open-source **Downloads** 



Videos & Instructions 3D Print Ready Files

Community Assistance

Device **Fulfillment** 



Recipient Matching

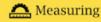
The community receives

an inquiry, the case is

reviewed. We search for

volunteer fabricator in

the area.



Measurements are retrieved in person or online by a series of photos and minor

information.

Production & Final Fitting

Test products are printed, assembled, calibrated and shared.

Our greatest reward is a recipient's life improvement.

Nodo de Trabajo

## Extando una mano

Autofabricación colectiva de prótesis en código abierto

#### EXando una mano 🗏

EXando una mano surge como iniciativa de ilusión y la necesidad por investigar, experimentar, difundir y promover la autofabricación en el desarrollo de prótesis personales. Servirá de plataforma para el aprendizaje, elaboración y nexo entre colectivos, buscaremos los saberes mezclados para el desarrollo de un caso concreto replicable, a través de un gran sistema abierto.

#### ¡Hola!

Somos Juan y Natalia, los padres de Paula. Esta es parte de nuestra historia y del porqué de EXando una mano.

Cuando estábamos embarazados de 20 semanas, a Paula le diagnosticaron una agenesia en su brazo izquierdo. Nunca antes habíamos oído esa palabra. La agenesia es una anomalía de todo (o parte de) un órgano al desarrollarse durante el crecimiento embrionario. Como os podéis imaginar, fue un duro golpe. Teníamos innumerables preguntas, grandes miedos y mucha, mucha tristeza. Por suerte, teníamos cerca a Martín, nuestro primer hijo, que a sus 4 años nos ayudó a seguir sonriendo. Así, decidimos seguir adelante con el embarazo.



EXando una mano



INVESTIGACION (Prototipo)



INVESTIGACION II (Desarrollo)







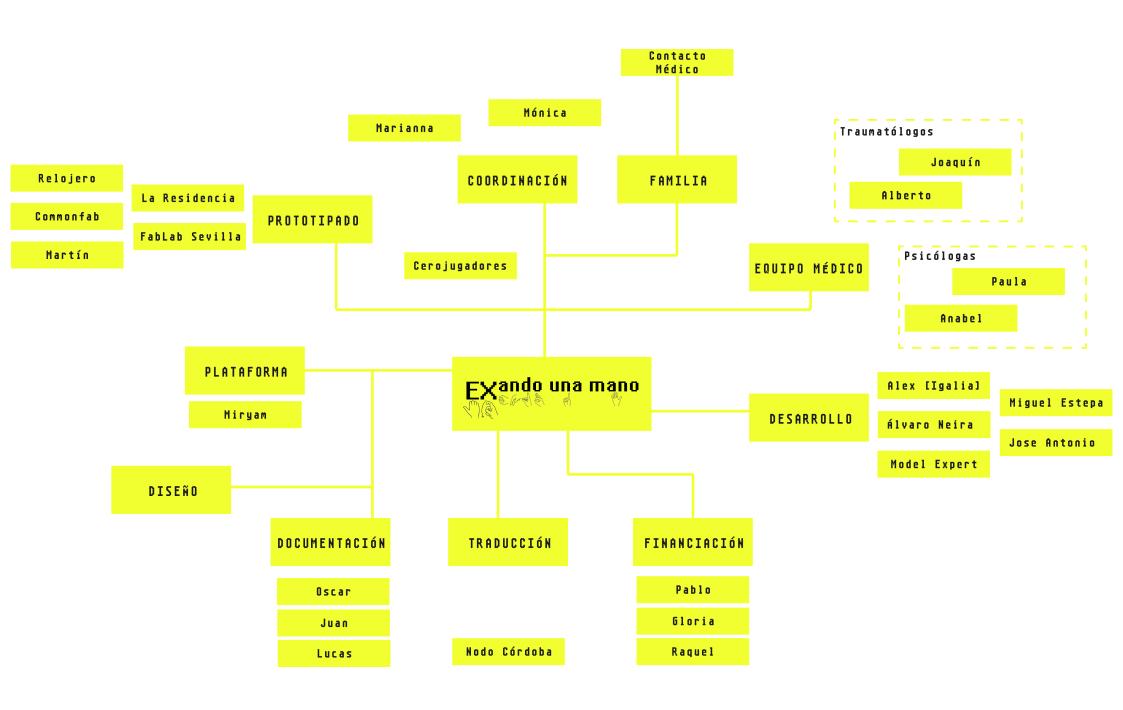




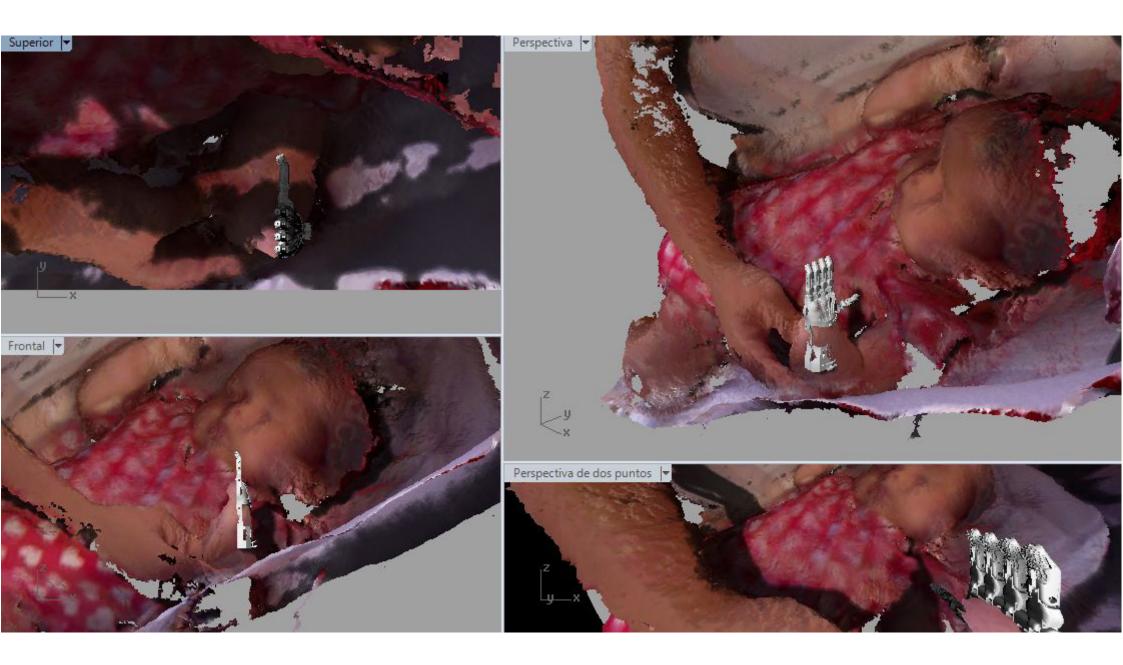




¿Cómo lo hacemos?

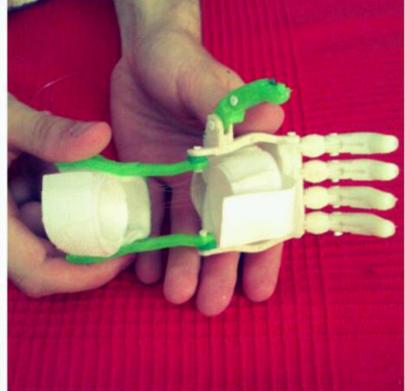


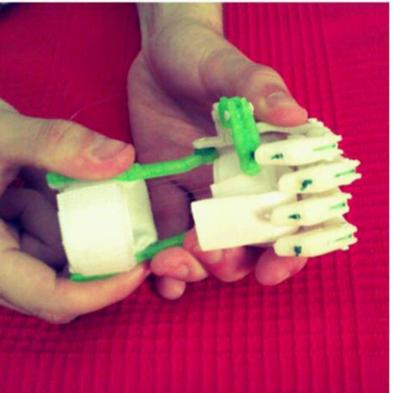
### Prototipado y Fabricación

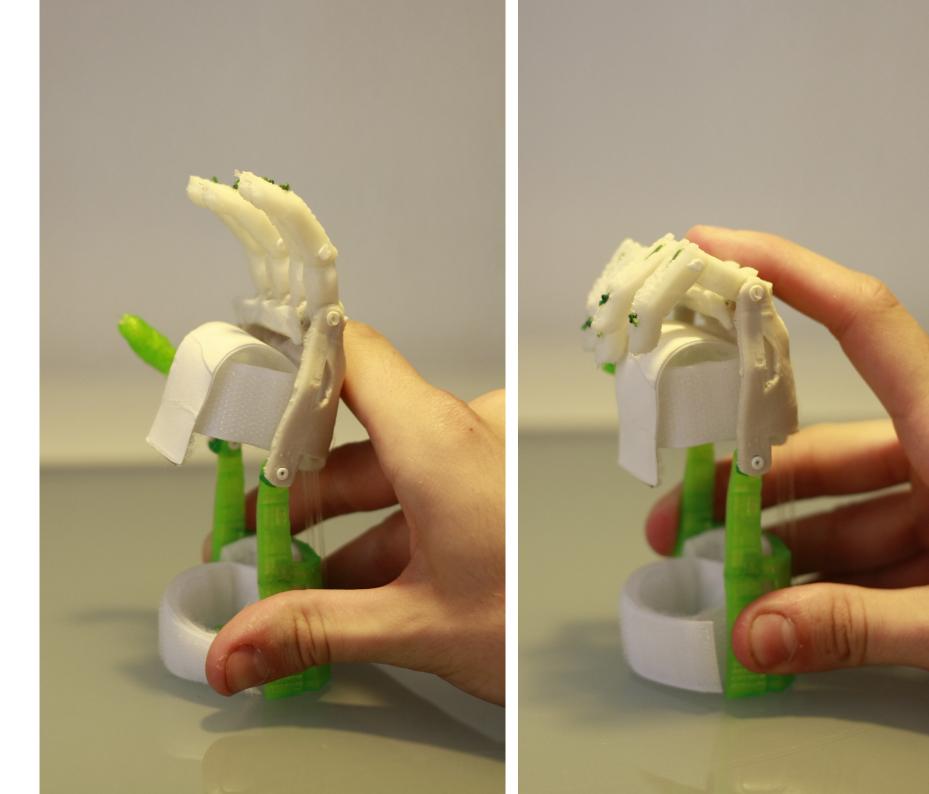


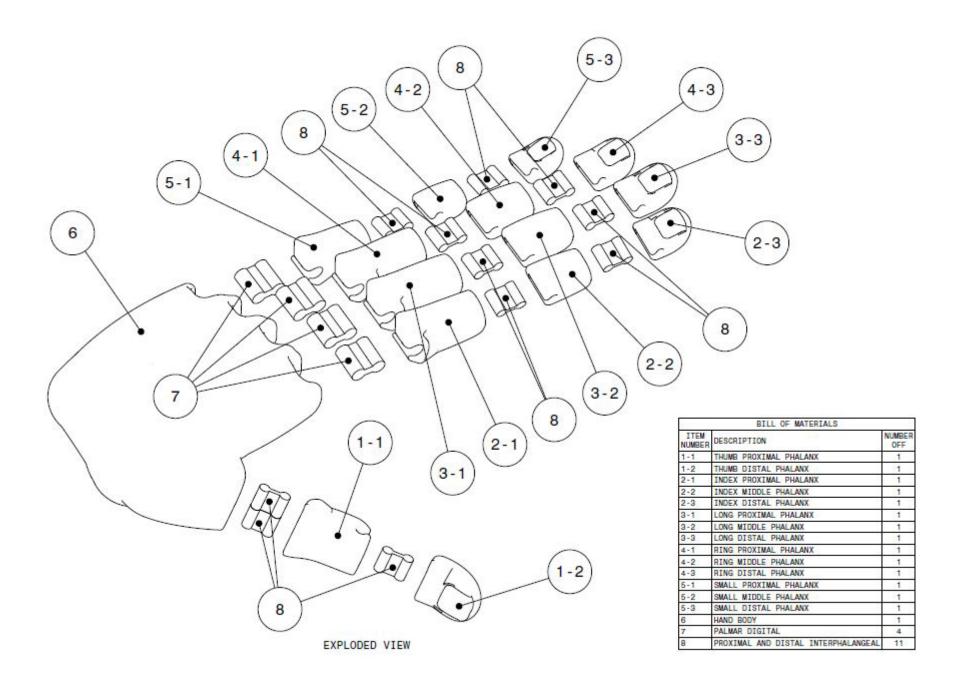


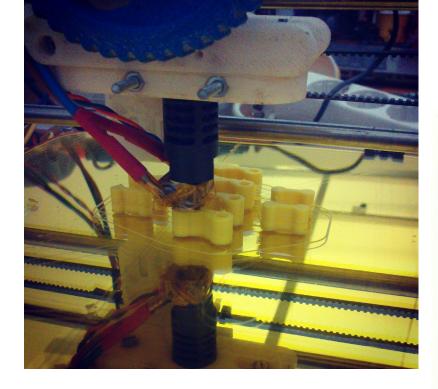


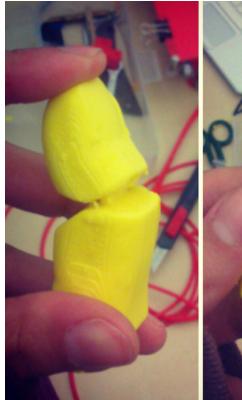
























### + Nodos



EXando una mano



INVESTIGACION I (Prototipo)



INV<u>ESTIGACIO</u>N II (Desarrollo)





Financiación



Archivo FTP

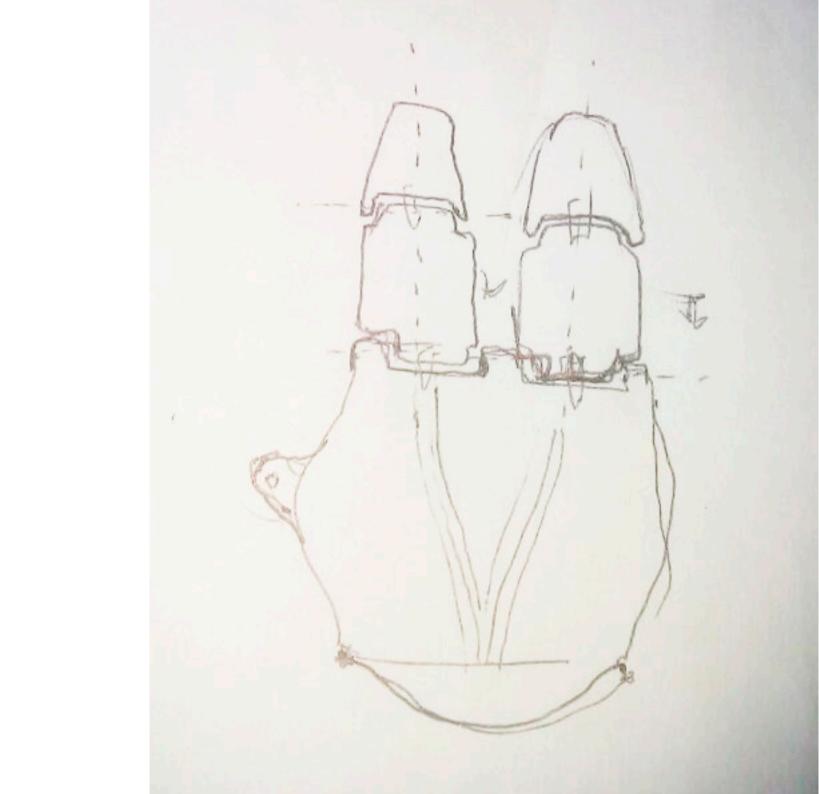


Comunidad



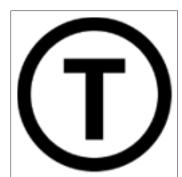


+ Allá

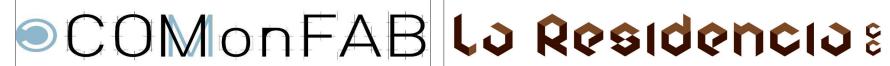












¡Gracias!

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