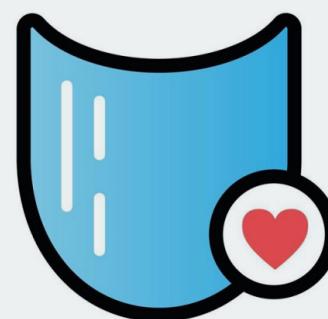




nuxperia



VISIÈRE
SOLIDAIRE

The Covid-19 Maker Response

Paul Ganelon

Paul GANELON

Designer + Maker

Technical Degree in Electronics

22 years as Designer

Specialized in Product & UX (User Experience) Design,
Digital Branding & Creative Team Management.

For Corp, Gov & Startups

Product / User Experience Director, Owner @ Nuxperia / X-Hub Lab
User Experience Design Instructor

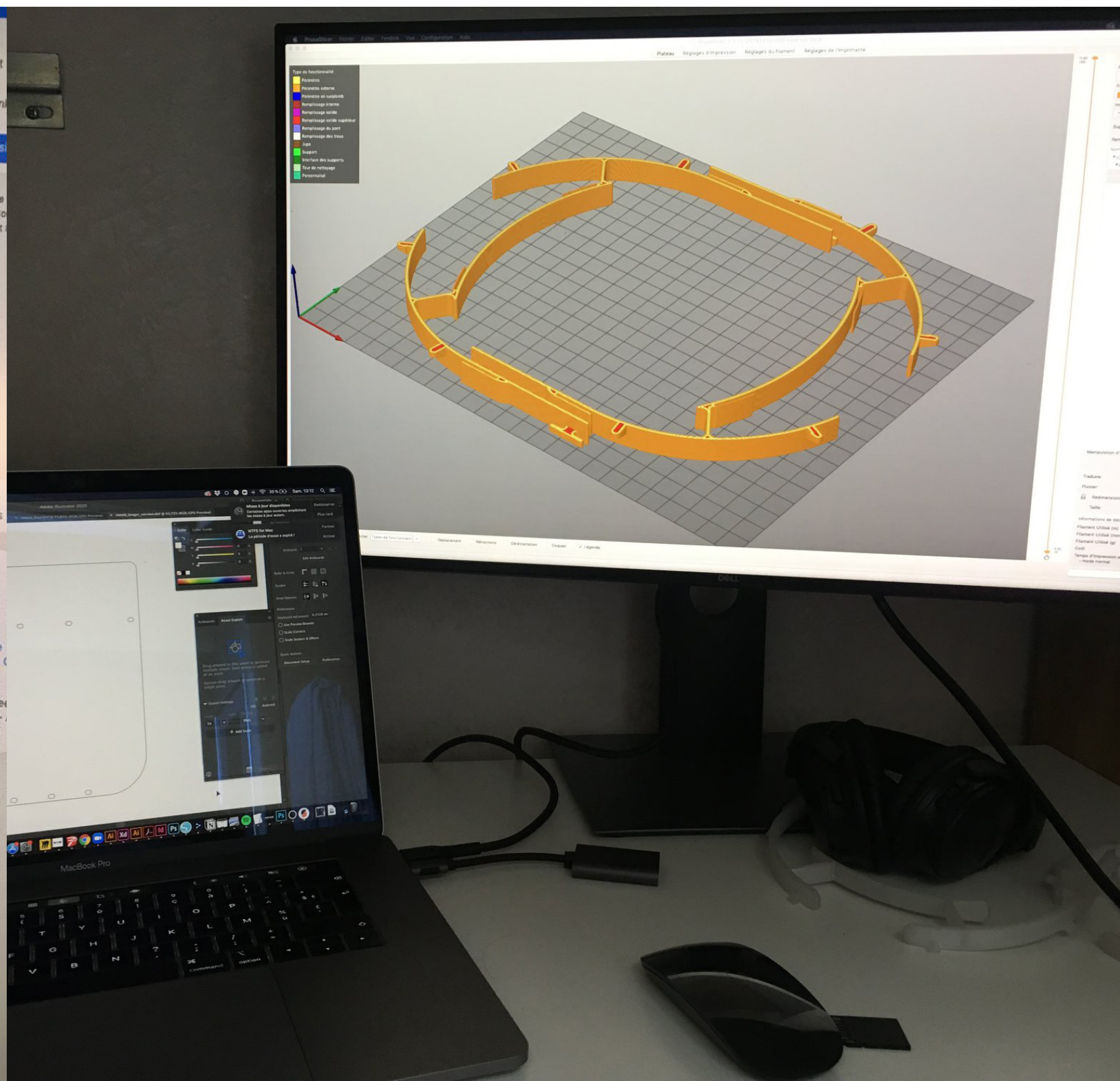
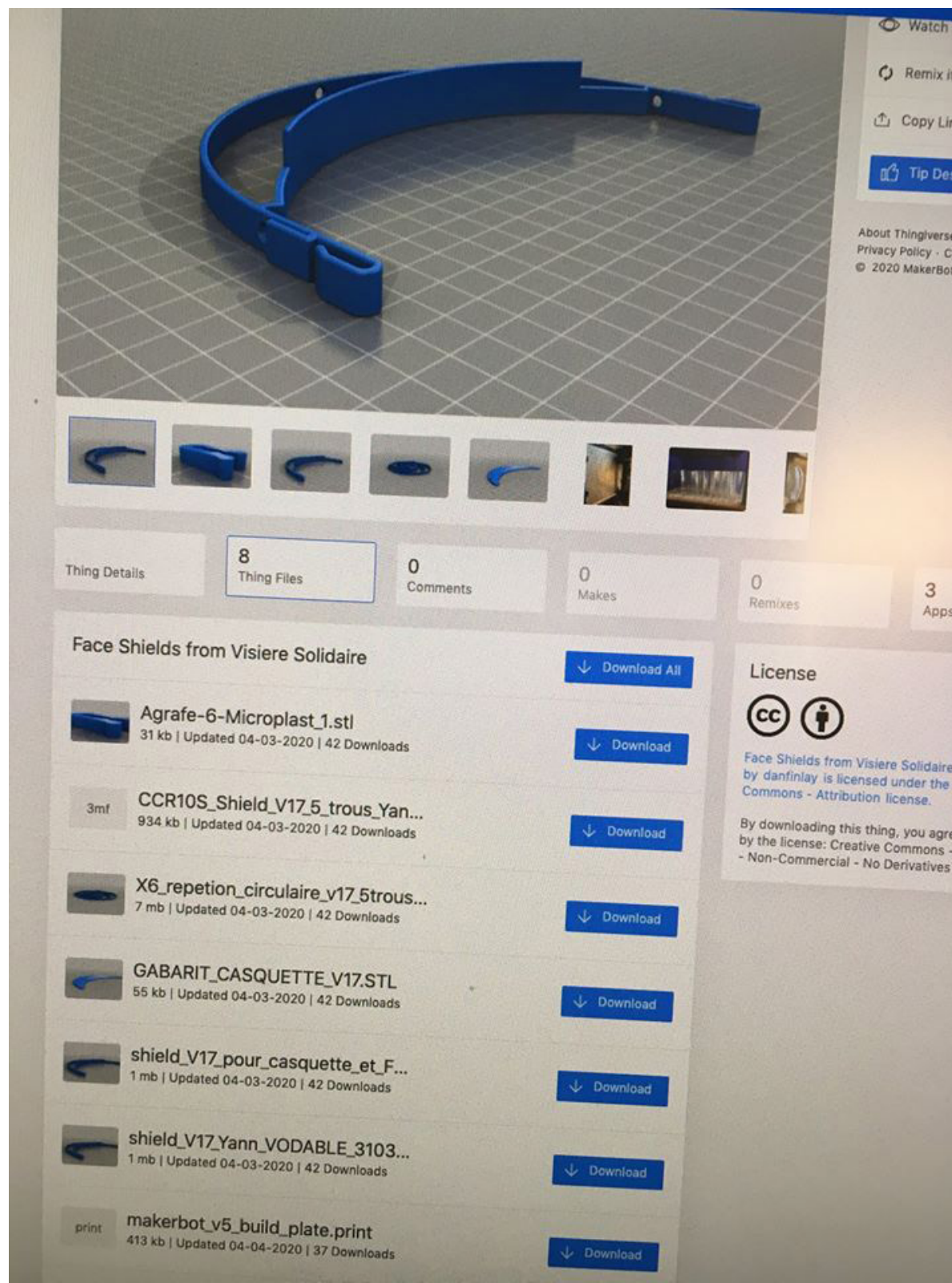
paul@nuxperia.fr
@PaulGanelon





29 JUIN 2020
OPEN SOURCE, COVID-19, SÉCURITÉ

29 JUIN 2020
OPEN SOURCE, COVID-19, SÉCURITÉ



**18
imprimantes
3D**

**Mini-usine
distribuée
& confinée**

29 JUIN 2020

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**PRUSA
RESEARCH**

4 releases



<https://www.prusa3d.com/covid19/>



COVID3D

<https://3dverkstan.se/protective-visor/>

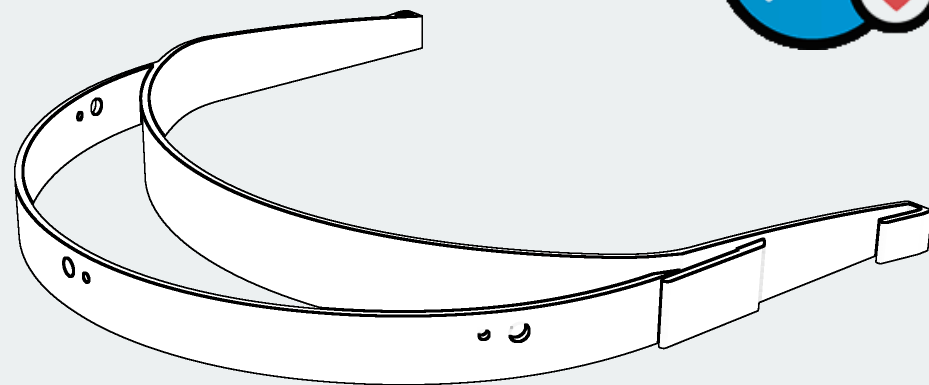


3DVERKSTAN

1 release



V8
28,80g
1"15'14

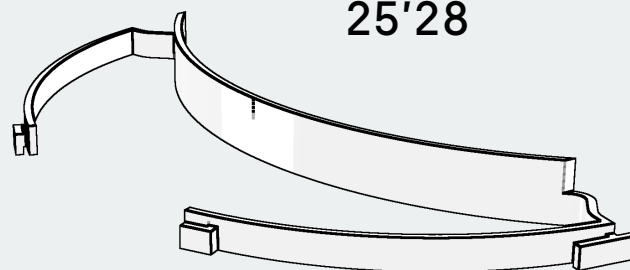


14 releases

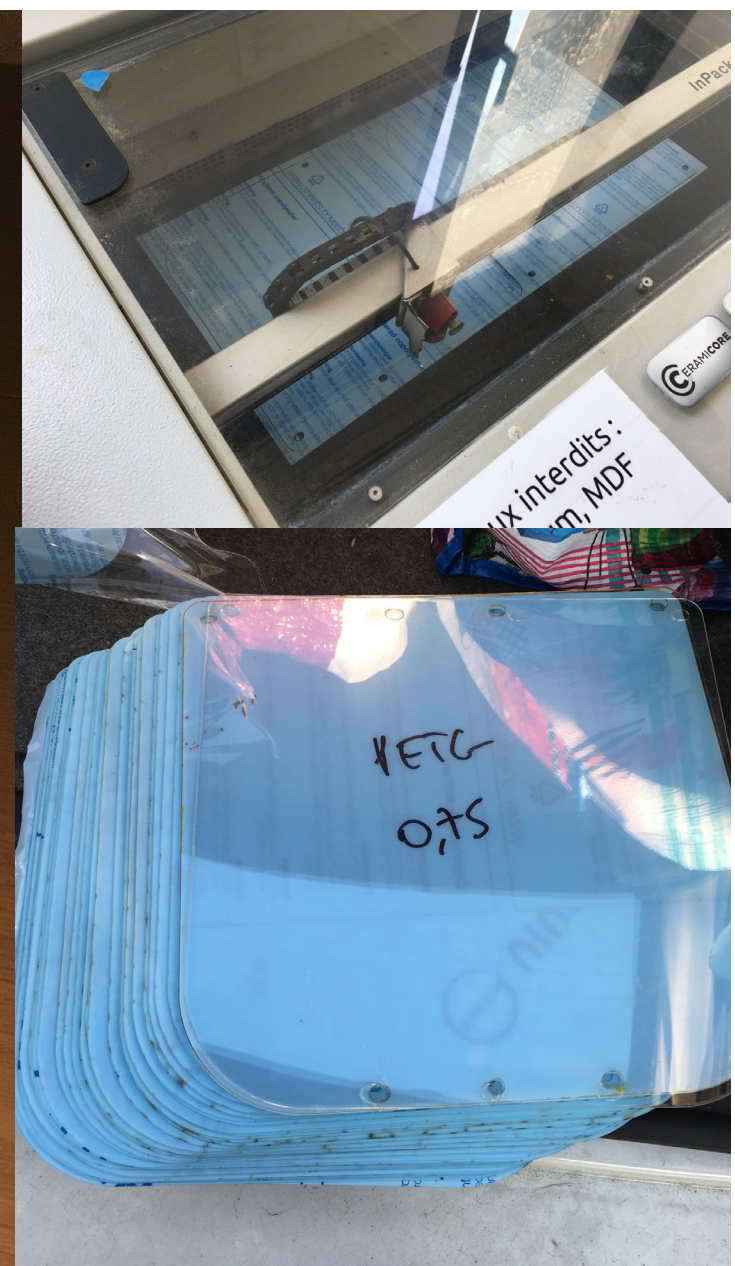


VISIÈRE
SOLIDAIRE

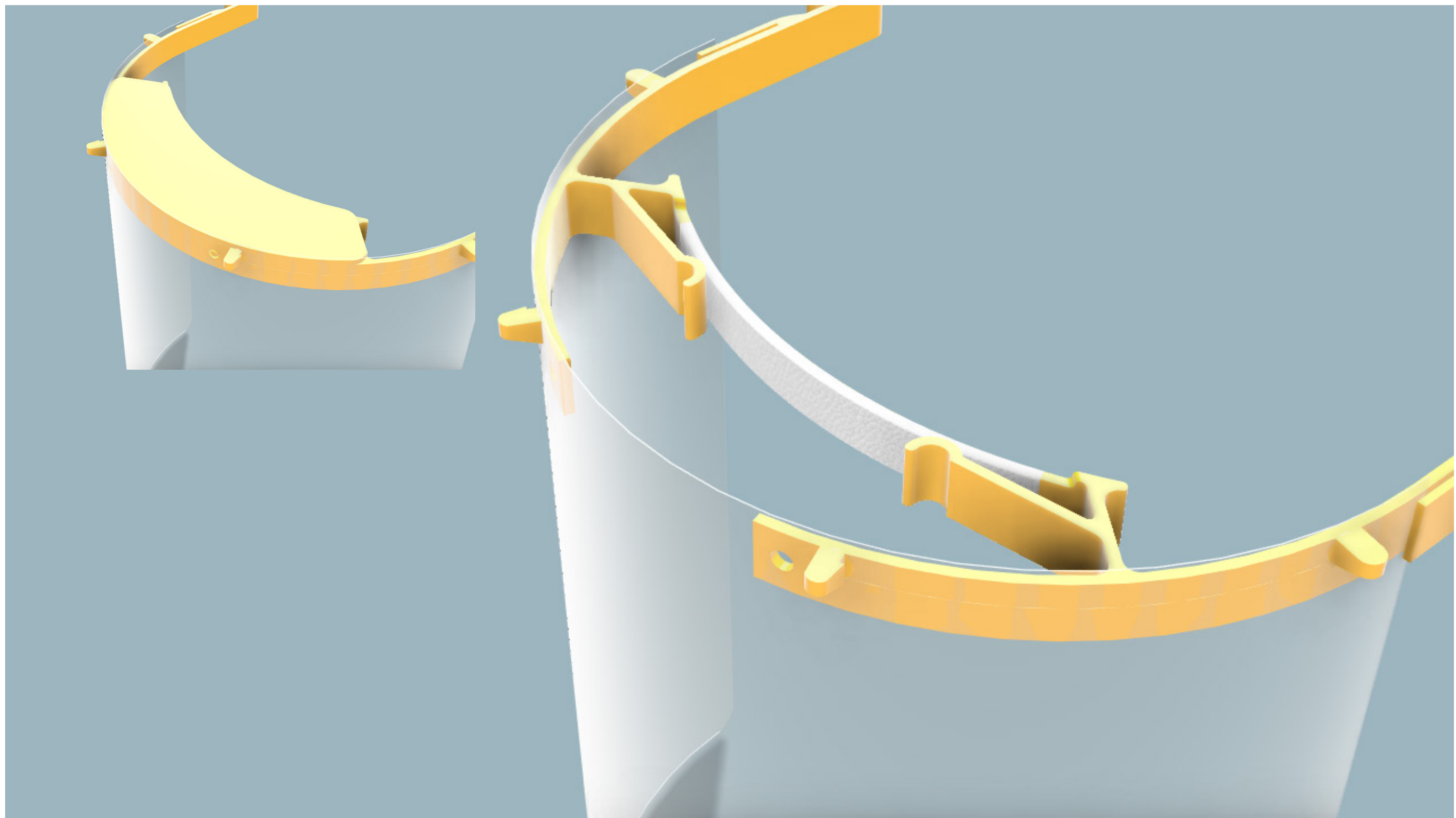
V30b
9,32g
25'28



<https://www.visieresolidaire.org>



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② **Analyse de faisabilité** (Vue 3D) [Voir en 2D](#) Modifications Proposées. Aide : [Questions fréquentes](#)

MODIF. REQUISES (4)

CONSEILS SUR LA MOULABILITÉ (4)

AUTRES INFO (3)

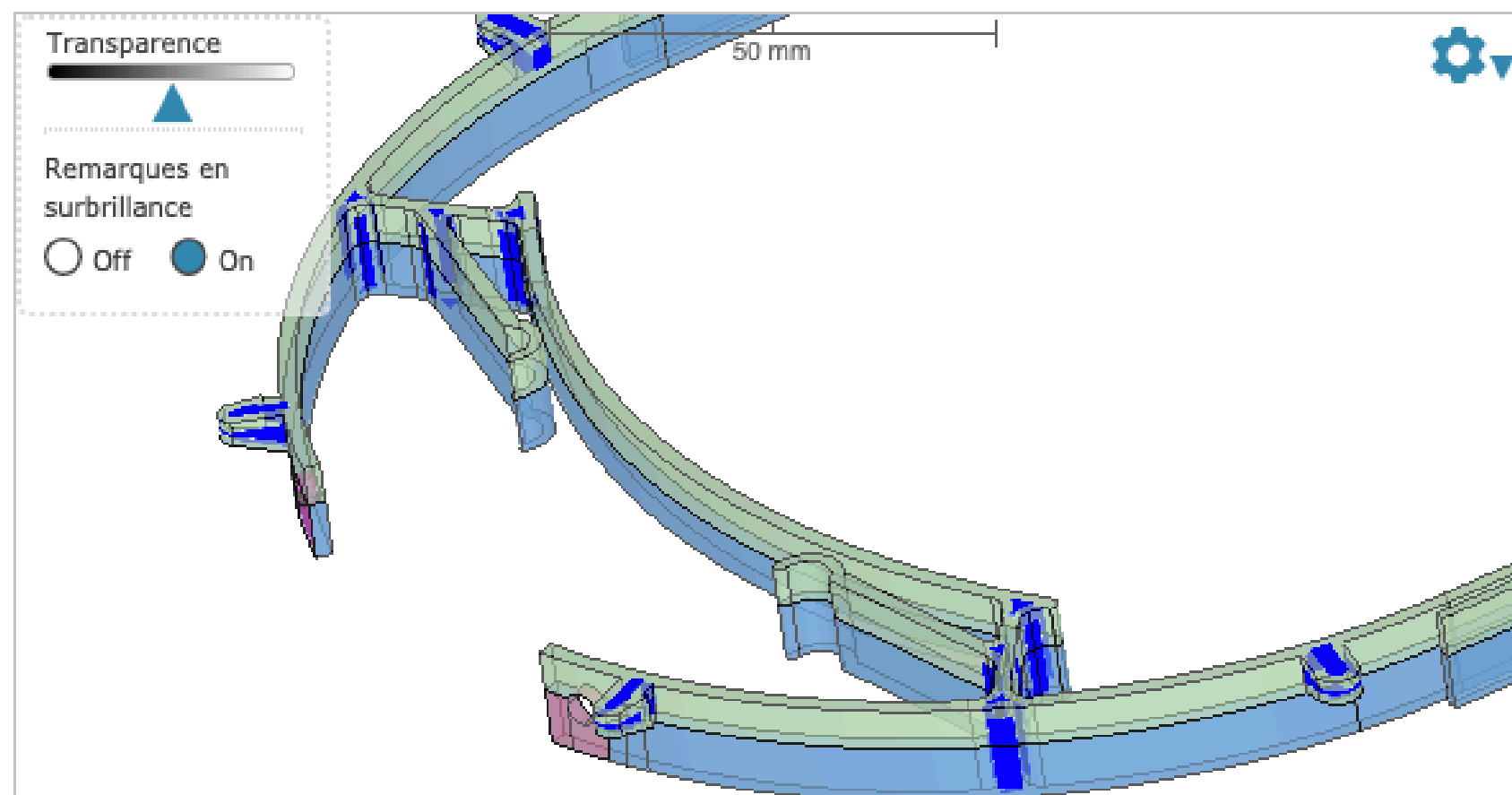
Les illustrations suivantes révèlent les considérations de conception à prendre nécessairement en compte pour un processus de moulage par injection à performances optimales.

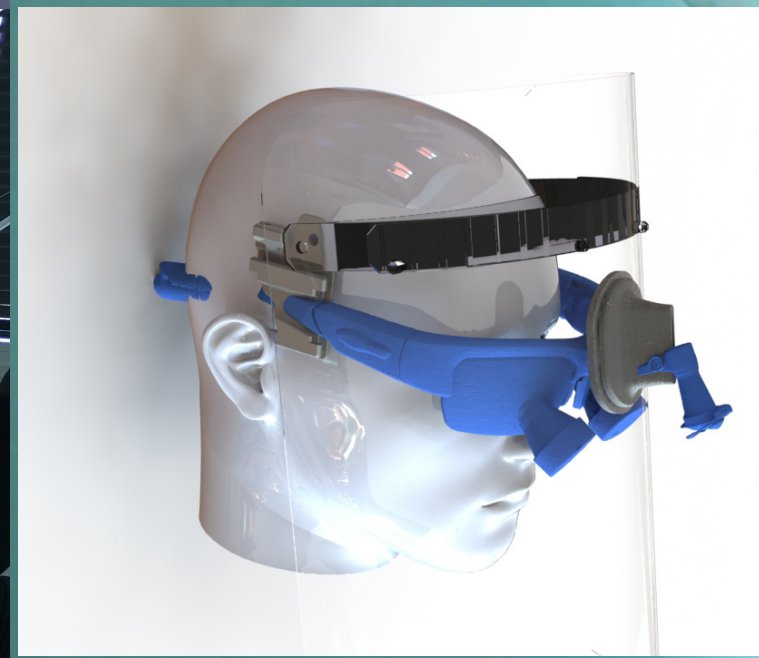
Conseils sur la moulabilité:

1. **Zone épaisse**
2. **Angle de dépouille zéro**
3. **Texture**
4. **Texture**

Zone épaisse

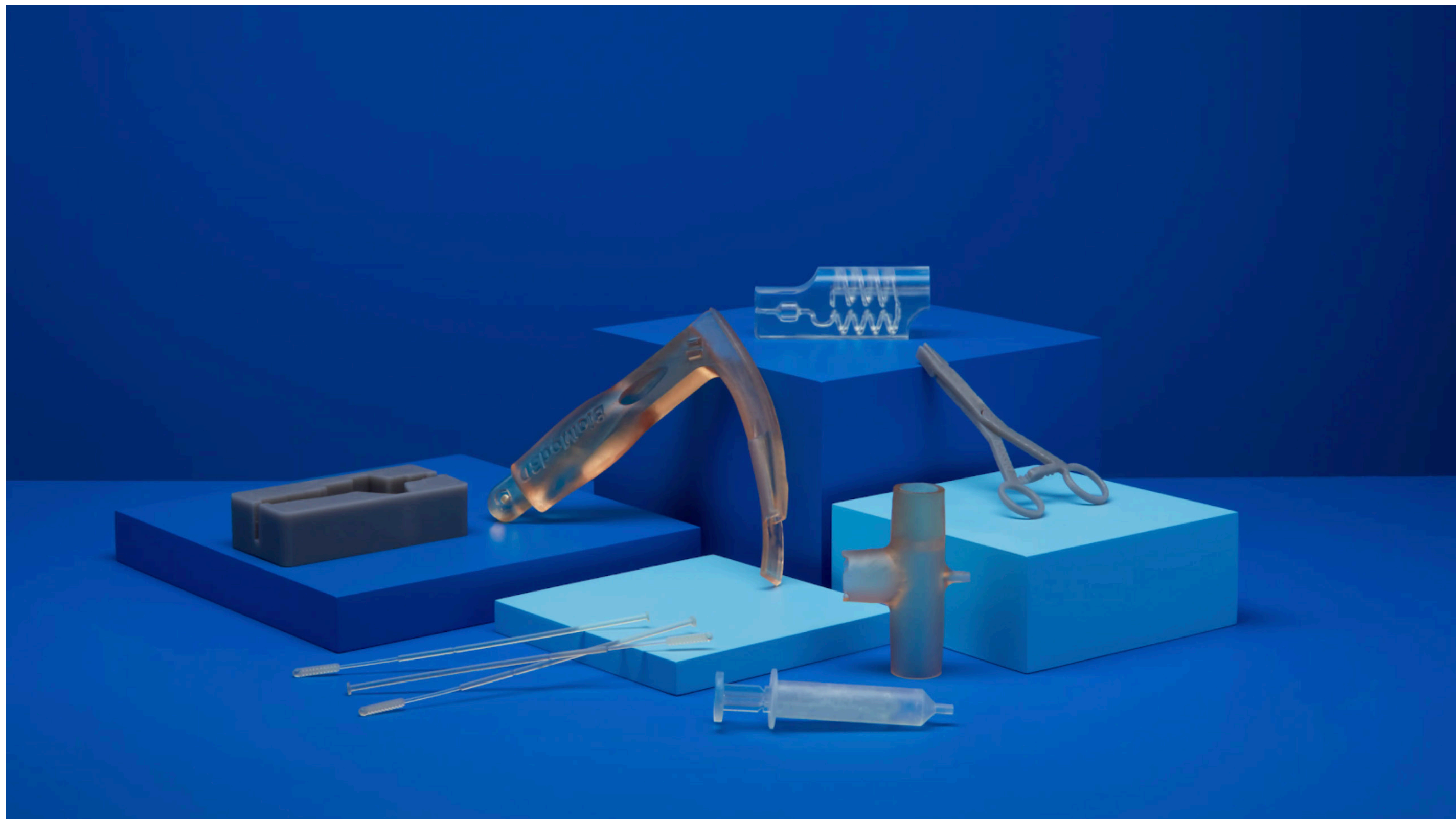
Un codage en couleur bleu foncé indique des zones où l'épaisseur de la pièce est considérablement supérieure à l'épaisseur nominale. L'apparition de marques de retassure, de vides et d'un retrait excessif est possible dans ces zones. Un gauchissement peut se produire dans ces zones et dans d'autres.



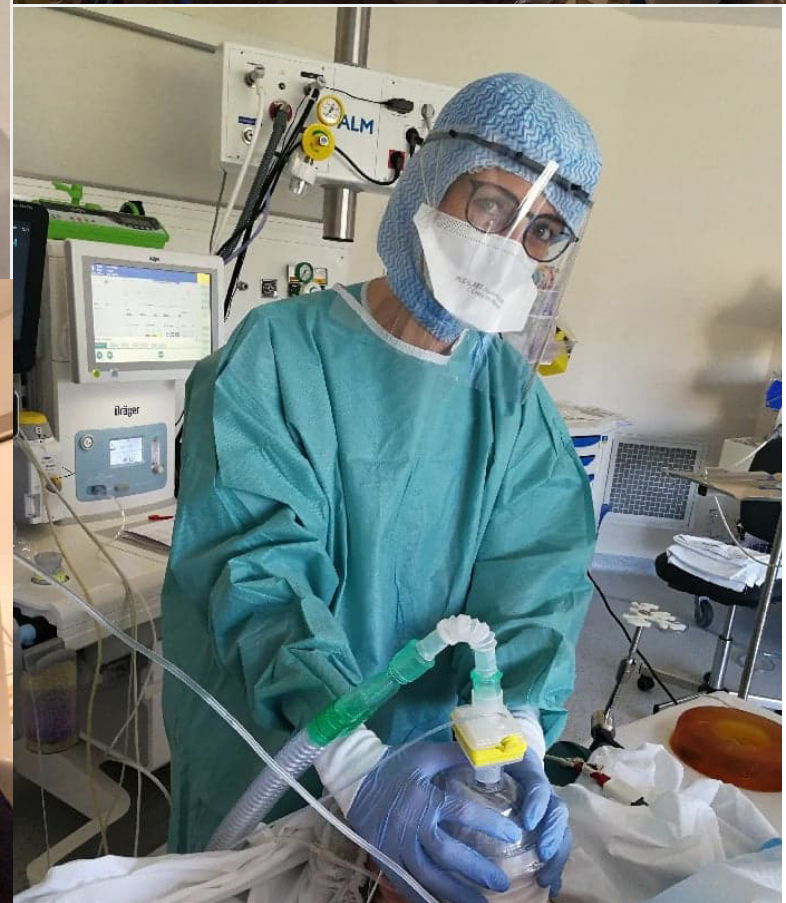


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10 makers ouest 06

6400 visières imprimées en 3D

15'000 visières dans le 06

env. 1 million en France



RESeau
d'Innovation Locale
& d'Initiatives d'Entraide
de la Côte d'Azur

resilienca.org
@resilienca



Makers Sans Frontières

makers-sf.org

Open manufacturing



New open production tools and methods

3D printers,
CNC [Computer Numeric
Control] machines...



New value-based movements

The Maker movement
DIY ethic...

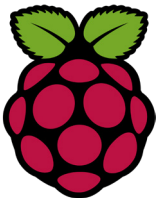


New institutions and networks for manufacturing and production

FabLabs,
hackerspaces,
Techshop, makerspaces...



Open source methods, software and protocols





nuxperia

Product
& Experience
Design

X-HUB
LAB

Open
Design
Lab

Hackerspace

UX & Maker ?

User Experience (UX) Definition

All aspects of the **end-user's interaction** with the company, its services, and its products. The first requirement for an exemplary user experience is to meet the **exact needs of the customer, without fuss or bother**. Next comes **simplicity and elegance that produce products that are a joy to own, a joy to use** [...] True user experience goes far beyond giving customers what they say they want, or providing checklist features. In order **to achieve high-quality user experience in a company's offerings there must be a seamless [merging of the services of multiple disciplines, including engineering, marketing, graphical and industrial design, and interface design](#)**.

Don Norman
Nielsen Norman Group





Product
& Experience
Design

Info Viz

Navigation

Interface Design

User
Experience
Design

Architecture

Mechanical
Engineering

*The Disciplines
of User Experience
Adapted from
Saffer, D. (2008)*

Electrical
Engineering

Ubicomp

Controls

Interactive
Environments

Usability
Engineering

Industrial
Design

Interaction
Design

Visual Design

Human-Computer
Interaction

Content
Creation
(text, data,
graphics)

Multidisciplinary Team

Product Designer
Experience Designer
Interface Designer
industrial Designer

Mechanical Engineer
Electronics Engineer

Software Engineers

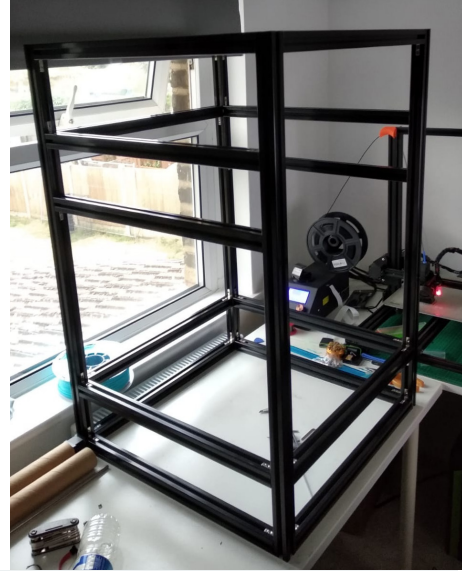




7 imprimantes 3D RepRap

machines à source ouverte

- possibilité de changer le design, modifier les pièces, les mettre à jour, les redimensionner, toucher au firmware, etc.
- compétences techniques
- compétences en programmation pour configurer firmware



1x FDM 25x21x21 cm
[Prototypage multi-matériaux]
PRUSA i3 MK3S

5x FDM 22x22x25 cm
[Ferme impression PETG, PLA]
CREALITY Ender 3 Pro

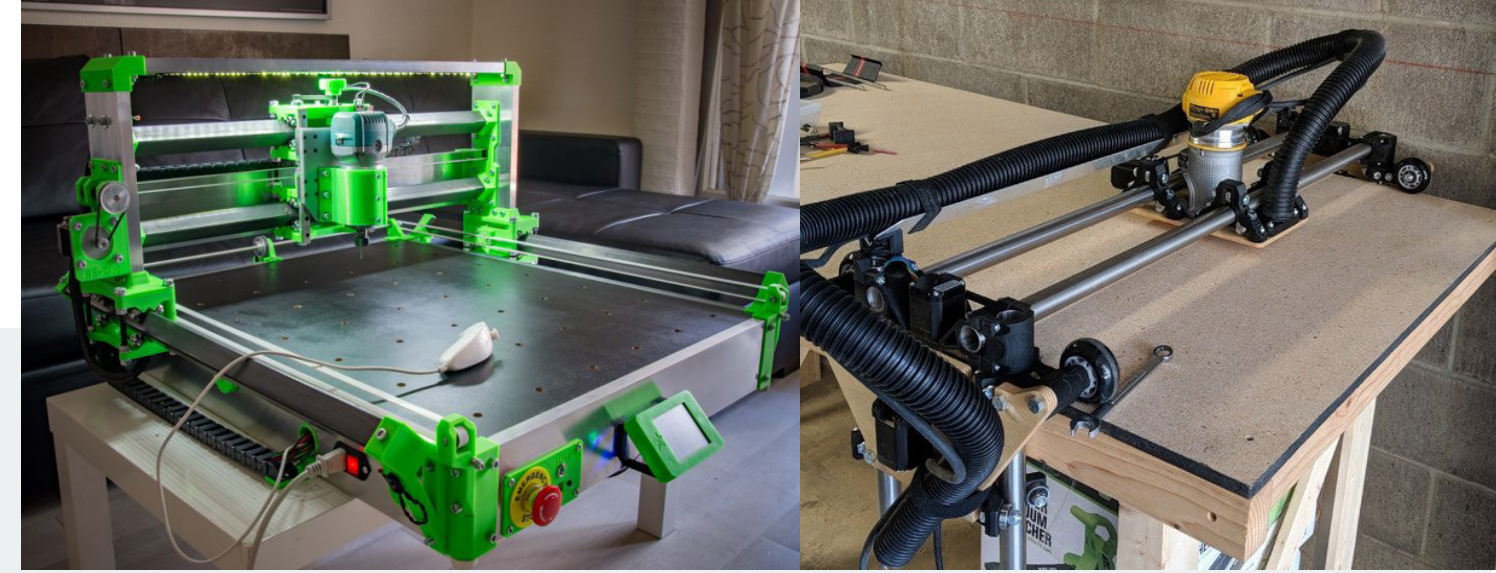
1x FDM Core XY 60x60x60 cm
[Grand format / 2 têtes d'impression]
CUSTOM
[en cours]

**X-HUB
LAB**

2 fraiseuses CNC

machines à source ouverte

- possibilité de changer le design, modifier les pièces, les mettre à jour, les redimensionner, toucher au firmware, etc.
- compétences techniques
- compétences en programmation pour configurer firmware



1x RS-CNC 32
120x80 cm
[Bois, plastique, alu...]
Graveur laser intégré

1x LowRider CNC | V1 Engineering Inc
280/410x130 cm
[Bois, plastique, polystyrène extrudé...]
Full Sheet Capable

1x MPCNC Plasma
En projet

**X-HUB
LAB**

1 Lab VR

Design & Engineering
Research
Interaction Design



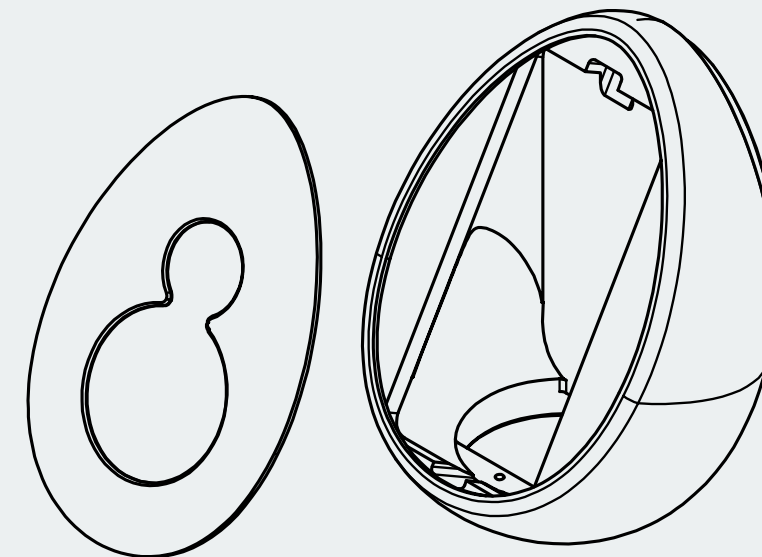
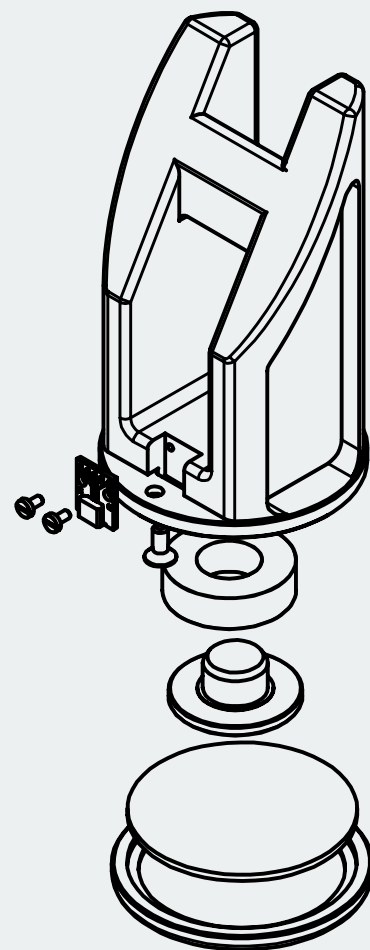
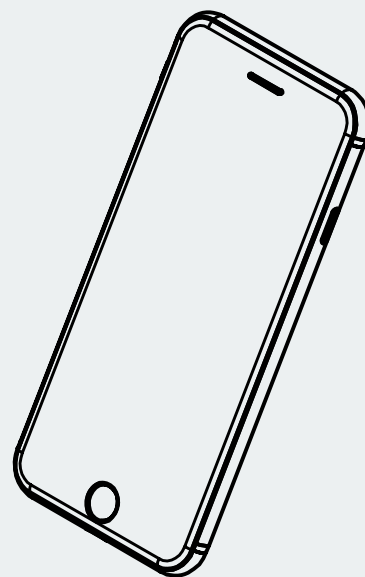
VIVE PRO

VR

**X-HUB
LAB**

1 Workshop

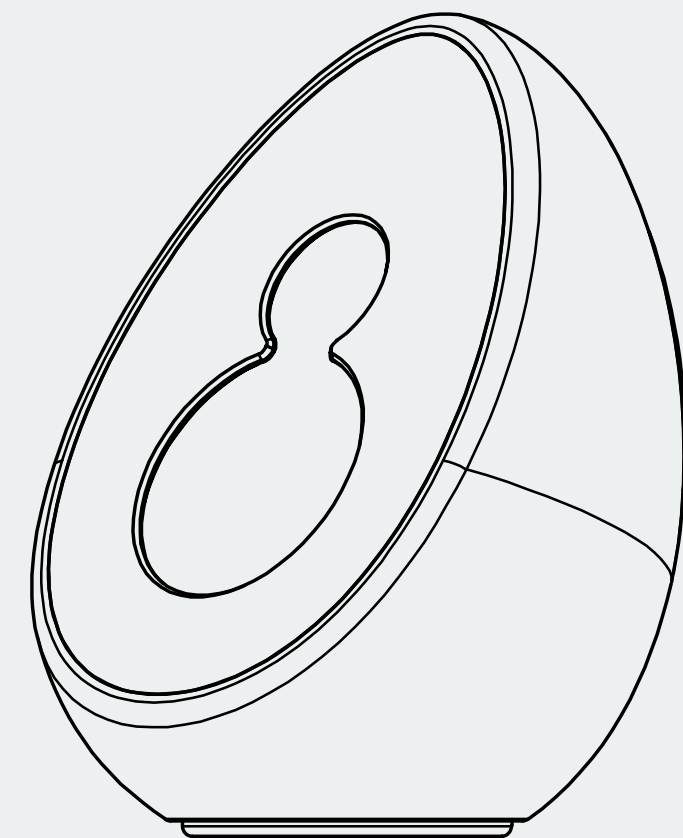
Mechanical
Electronics
Woodworking



metronome

Self-Ordering Device

Prototype





miro

Rappsodi_Metronome-Design

☆

↑

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Share

🔍

🔔

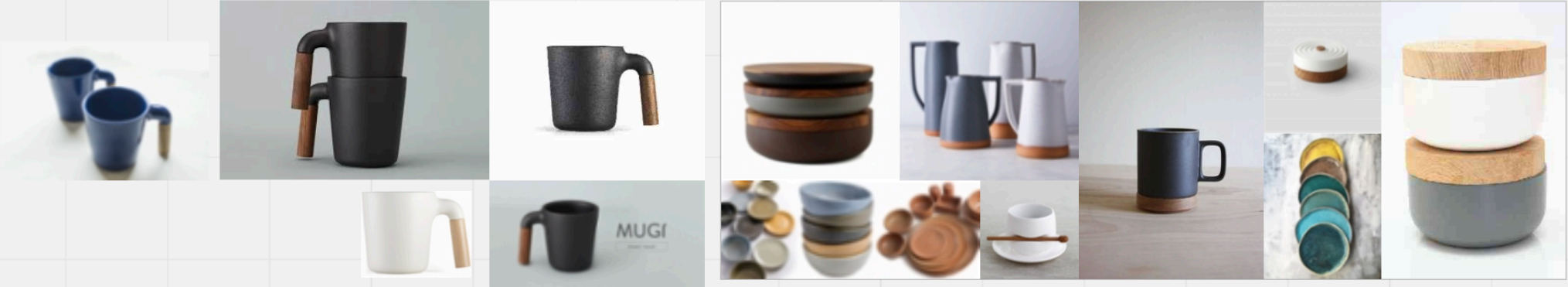
🔗

80

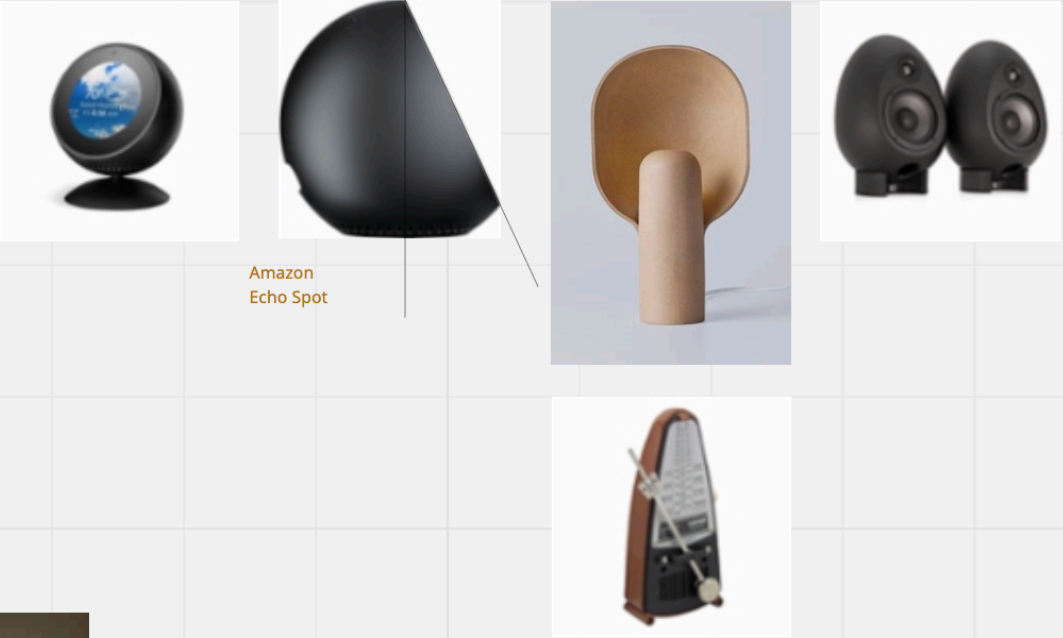
Research & Inspiration

Materials

Wood+Ceramics

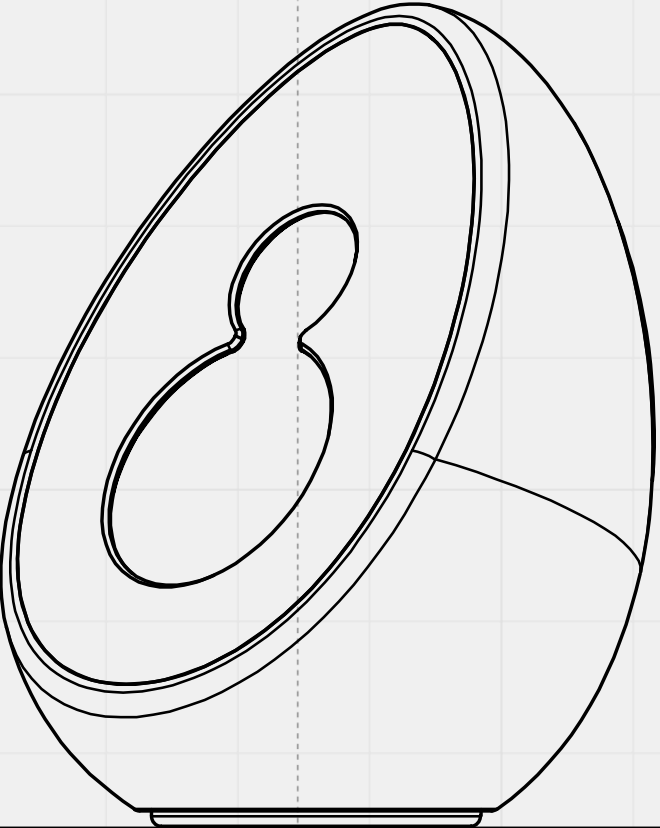


Shape



Amazon Echo Spot

Metronome



🔍

🔧

📄

🔗

📌

📝

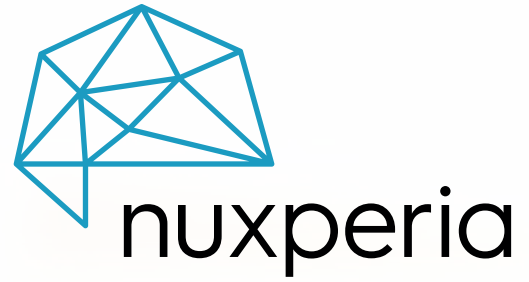
🔗

📌

📌

...





User Experience Design

Russound

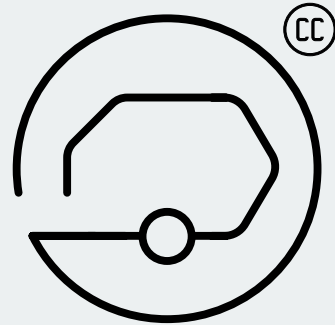
the #1 brand in multiroom audio, designs award winning multiroom products for the residential systems market.



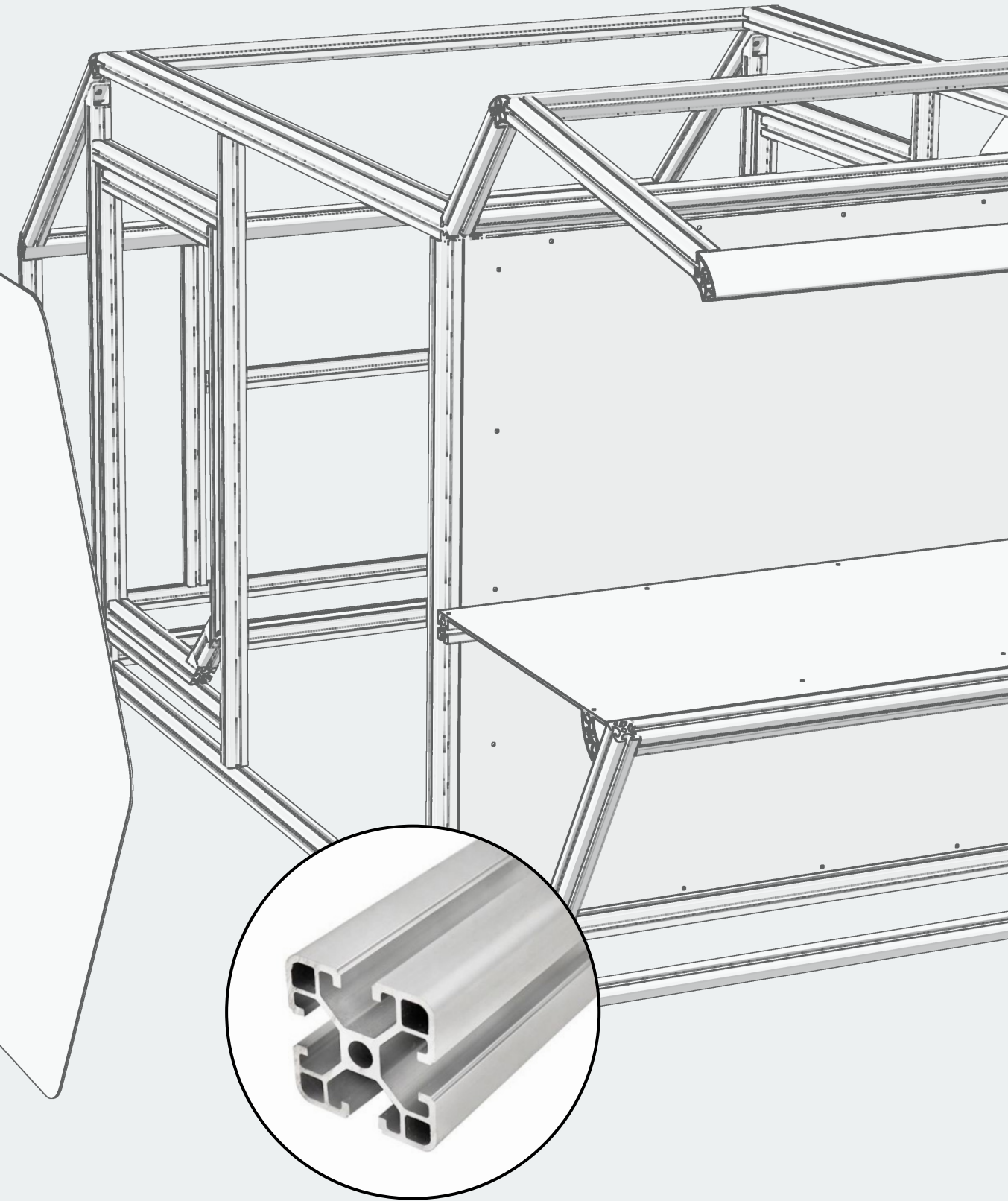


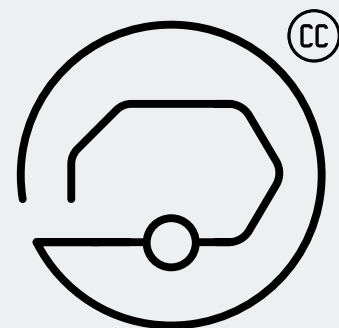
Product & User Experience Design





openteardrop





openteardrop



TRAILER for TWO

