



PORTFOLIO

RUBÉN
CASTILLO
ZAMBRANA

2020

NOTE /

**THIS IS NOT
JUST ANOTHER
BORING RANDOM
PORTFOLIO...
WELCOME!**



RUBEN CASTILLO ZAMBRANA

Barcelona, Catalonia - Spain (1996)

Hi! Nice to meet you, reader. I am Rubén, an entrepreneurial and proactive person born in Barcelona that decided to study at Elisava, a well known industrial design engineering school from Barcelona.

During these four years of university I learned, changed, evolved and lived different emotional experiences. I felt sadness, joy, solitude, company... and all these feelings have made me become how I am nowadays.

I like numbers and calculations, but also I enjoy the creative and conceptual side of a project. This university offered me the opportunity to learn both of them. Giving me a more complete professional profile, both technical and artistic.

I'm a person who not only cares about good design (taking into consideration functionality, ergonomics and aesthetics), but also cares about the technical part, like tolerances, materials, physics...

M E /

12.09.1996
Barcelona, Catalonia (Spain)

EDUCATION

Tech Science High School (CE Roca, Barcelona) 2012 - 2014

Industrial Design Engineering Degree, mention in Product Design (Elisava, Barcelona)
2014 - 2018

Postgraduate Degree in Advanced Techniques for Industrial Prototyping (TPI),
(CIM UPC, Barcelona) 2018 - 2019

Postgraduate Degree in Computer Aided Engineering (CAE),
(CIM UPC, Barcelona) 2018 - 2019

Course in UX / UI Design (Presential, 160h),
(CIFO la Violeta, Barcelona) 2020

EXPERIENCE

Intern at CE Roca for review classes in maths, physics and technology (2014-2016)

Curricular Internship at Marina Barcelona 92 (July 2017- March 2018)

Industrial Designer Junior at Vallfirest Forestry Technologies (February 2019 - December 2019)

Freelance for Mosaic Girona (March 2019 until now)

CEO 3DelightBCN (January 2020 until now)

COMPUTER SKILLS

- Microsoft Office
- Solid Works
- PTC Creo
- Rhinoceros
- Arduino
- KeyShot 6
- Cura / Slic3r / ChiTuBox
- Adobe XD / Sketch / Figma

- Adobe Indesign
- Adobe Illustrator
- Adobe Photoshop
- Adobe Premiere
- ANSYS
- CES Selector (Material Selector Software)
- Auto CAD

LANGUAGES

- Spanish (Native)
- Catalan (Native)
- English (Advanced)
- German (Basic)

CONTENT /

This portfolio presents a selection of the artwork which best represents myself.

Every project, piece or picture has been created with dedication and passion for design and people.

PROJECTS/

DIAMOND
SHARBI
LEVO
BOREA
DPIO
MB92 SHOWROOM
SONARIA
3D MOLDS

UX/UI DESIGN/

AVENTURALIA
3DELIGHTBCN

PROTOTYPING/

PHILIPS HQ953
PAVILION HULT
BOAT
SONARIA

3D PRINTING/

MY STUDIO
3D PRINTING SERVICE

RENDERING/

PHOTOGRAPHY/
CONTACT/

/PROJECTS

"A new concept for packaging fruits".

Subject / Packaging
Tutor / Cristina Taverner Ribas
Team / Individual Project



Diamond is a packaging for grapes, cherries and blueberries, designed for the fruit company Sanlucar.

The main problem was that their customers did not pay attention to their products, since their designs were mainly industrial.

As the packaging refers to the good quality of their fruits, I decided to take the diamond as a symbol of excellence.

Starting from the idea of the diamond, 3 proposals were made:

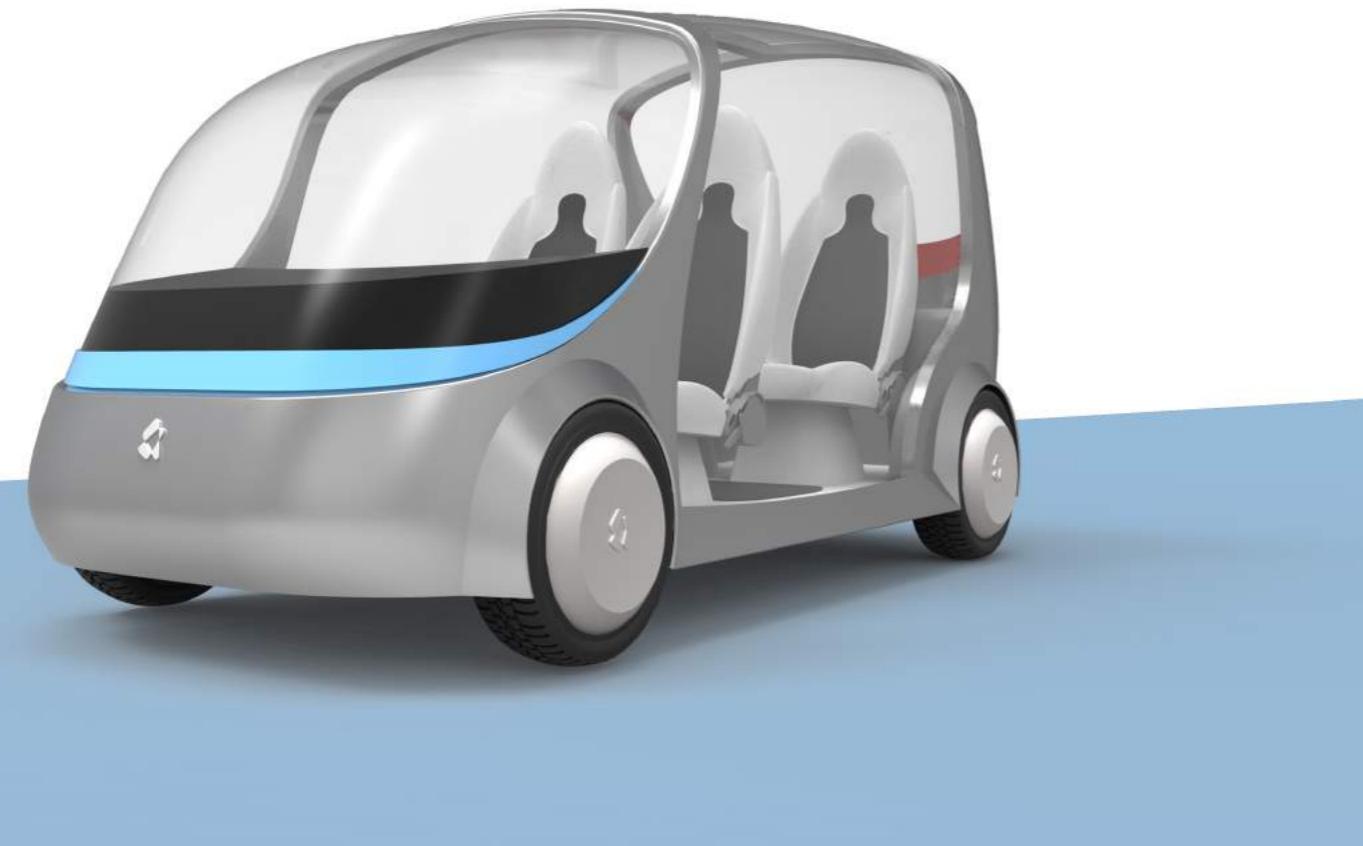
One with cardboard Kraft, keeping the idea of eco; another with cardboard; and finally one with plastic and silver hot stamping on the sides, resulting this one to be the best option.

Being transparent allows you to see the condition of the fruit. Moreover, silver border makes Diamond stands out among the other products at the point of sale.



Autonomous Electric Sharing Car.

Subject / Mobility and Transport
Tutor / David García Larriba
Team / Rubén Castillo
Martín Danlos
Marta Genzor



Large cities are at very high levels of pollution due to the large number of combustion vehicles. Also, the number of traffic accidents have increased due to human errors, despite the fact that they only use the car 8.33% of the day.

Sharbi is the inevitable future of transport.

Small Shared Electric Autonomous

Sharbi is a network of autonomous electric vehicles available to any user through fixed stations (such as airports or central locations) or through the app.

Inside the vehicle the user will enjoy a unique experience: panoramic windows, travel assistant, customized entertainment, etc.

"Sharbi, share by people".



Laptop elevator for improving your working position.

Subject / Business Plan
 Tutor / Emma Feriche Bartra
 Team / Rubén Castillo
 Albert Tormo
 Joan Vilà



LEVO was born from creating a business plan for a necessary product in the market.

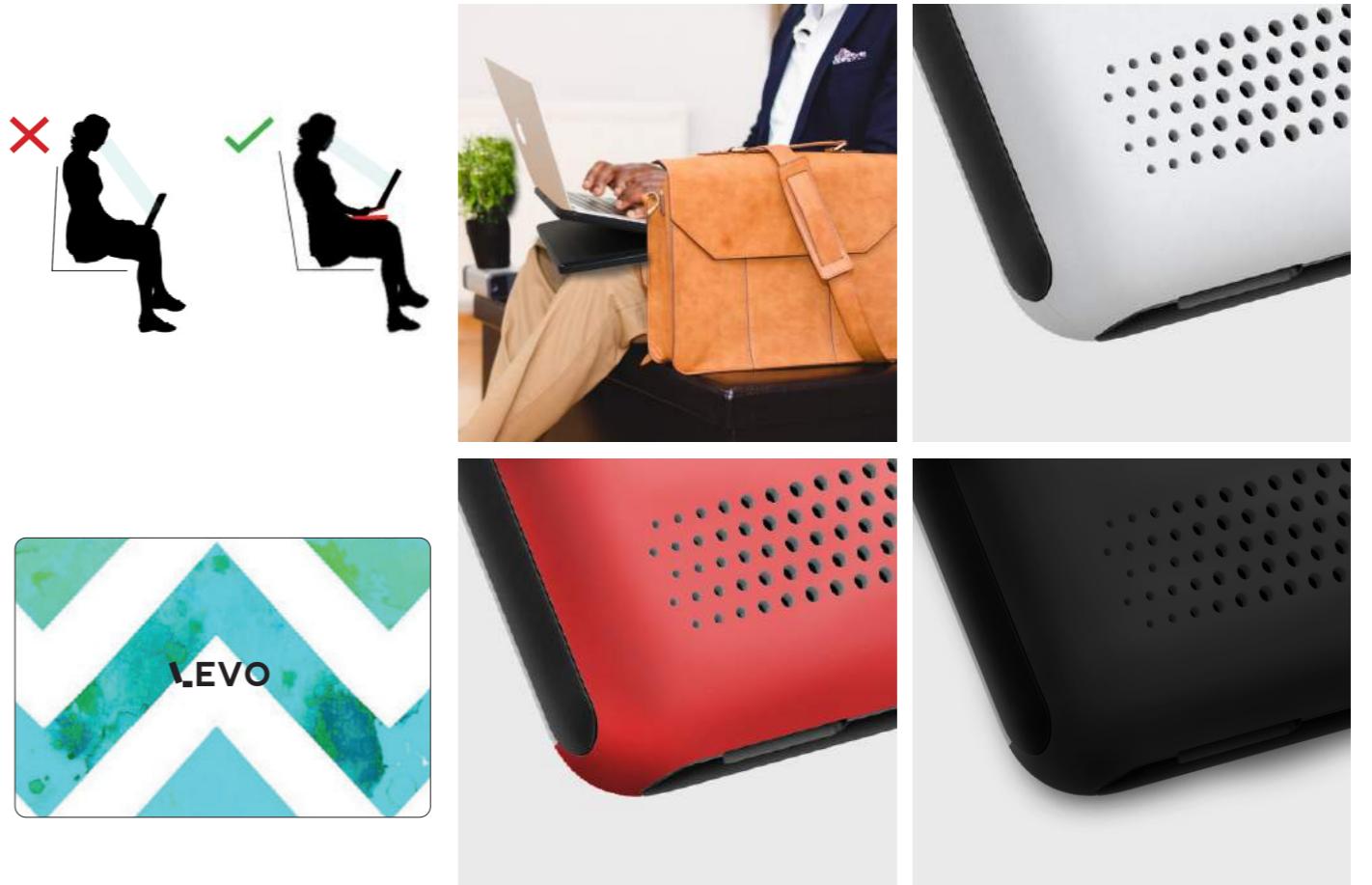
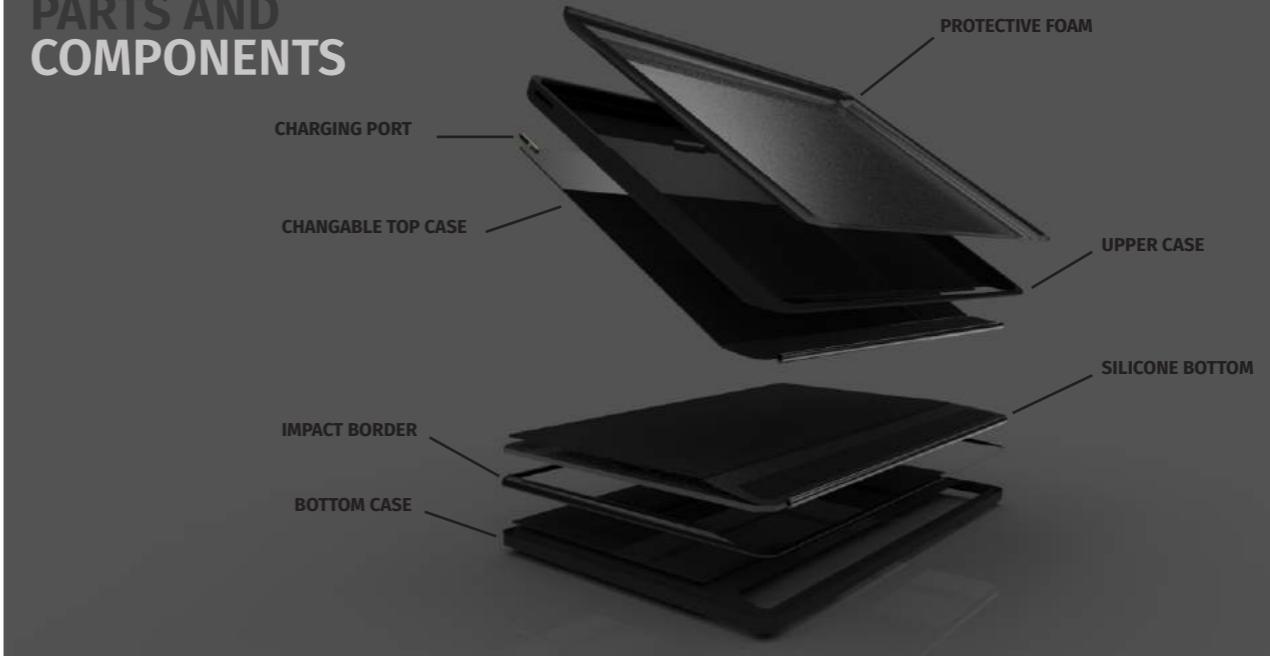
In this project the main problem was the generalized non-appropriate use of laptop by consumers.

Laptops are designed to be used overtable, and with a big amount of space for the keyboard interaction, but so many people don't have the opportunity to have an ideal place to work all the time. This product is a laptop cover that folds

itself in order to have a support to place your laptop in, and have a better way to use it, reducing bad positions, injuries, overheatness, and other ergonomical problems related with the user, and it will also enhance the laptop performance by not heating it.

We made an estimated product cost according to the different promotions that the product will have throughout its sales cycle.

PARTS AND COMPONENTS



DON'T PANIC IT'S ORGANIC /

Beach Can cooler and Ashtray made of Mycellium.

/ P R O J E C T S

4rd E. Industrial Design (2017-2018)

Subject / ACV

Tutor / Judith González Bertran

Team / Rubén Castillo

Albert Tormo

Andrea Vidal



Don't Panic It's Organic (DPIO) is an organic product made of Mycellium.

Mycelium is the vegetative part of a fungus, that by treating it in a specific way, you can get a material that is: fire resistant, strong, flexible, moldable, compostable, renewable, lightweight and thermal insulator.

Considering these properties, the product was designed for beaches, which are the most affected by plastic waste.

DPIO keeps the cold of your cans while you enjoy the beach and also allows you to leave the ashes of the cigarette (which are biodegradable) inside, avoiding the use of plastic ashtrays and refrigerators with polluting materials.

Don't panic it's organic

beach ashtray



Light tematical Beer Dispenser for cool bars.

Subject / Projects II
 Tutor / Alex Casabó Tormo
 Team / Rubén Castillo
 Albert Tormo

BOREA

"Feel the coldness of a polar beer"



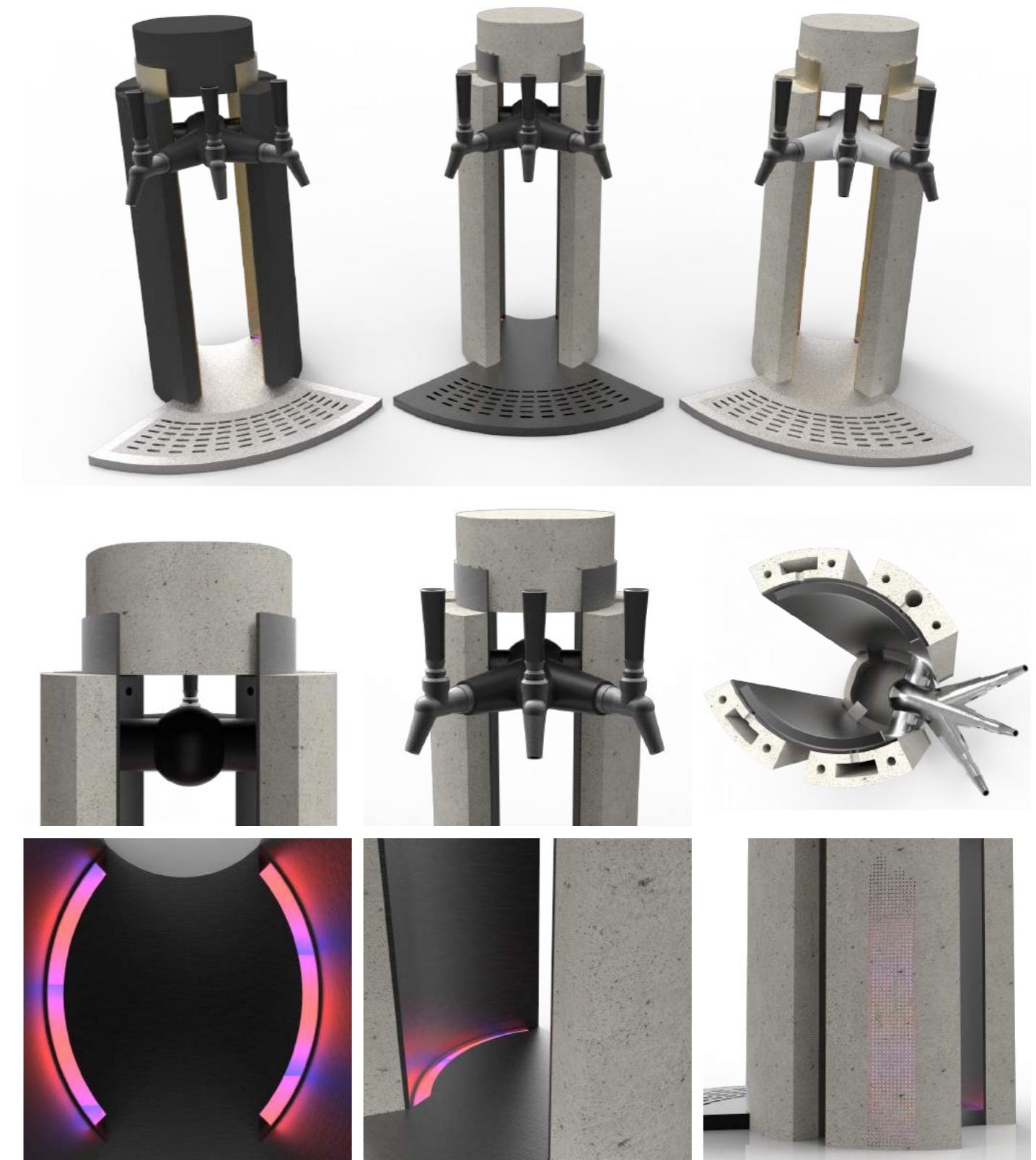
Boreá is a project for Aplimet, a beer dispenser company that focuses on design, technology and personalization, always keeping in mind emotions.

The main problem was that people didn't enjoy the experience when the barman serves a beer.

Thus, the solution was to design a dispenser that moves away from the

standard and does the act of serving a show. Through new materials, shapes, technology.

The main fact of Boreá design is that the client can see how the beer is served through the dispenser, while enjoying a show of boreal lights coming from the inner base and the outer walls thanks to a microperforated material (Luccon).



SHOWROOM MB92 /

PROJECTS

Atelier and Showroom for interior Design Department.

4rd E. Industrial Design (2017-2018)

Subject / Internship in Companies
Tutor / Toni Colom
Team / Rubén Castillo
Toni Colom



During my curricular internships in the interior design department in the yacht repair company "Marina Barcelona 92", they ordered me a project to design the new office for the personnel of this department to a nearby building.

The problem was that they had too many employees and materials in the department, so they needed to move to a place that offered them more space. By doing this they could better show to their clients the different fabrics, polymers, wood, etc., As well as the projects under development.

The inspiration comes from the idea of an Atelier, with large tables and several places to store materials to have them organized. It offers a central space where light can pass through a window, and with comfortable chairs for visitors.

Finally, there are expositors where all the information will be shown to the client in a physical and visual way, to make communication easier.



The LED acoustic panel that reduces the excess of noise in waiting areas.

Subject / Final Degree Project
Tutor / Sergi Vich Palou
Team / Individual Project



SONARIA

Sonaria was created for "Teknon" hospital (part of Quirón Salud group).

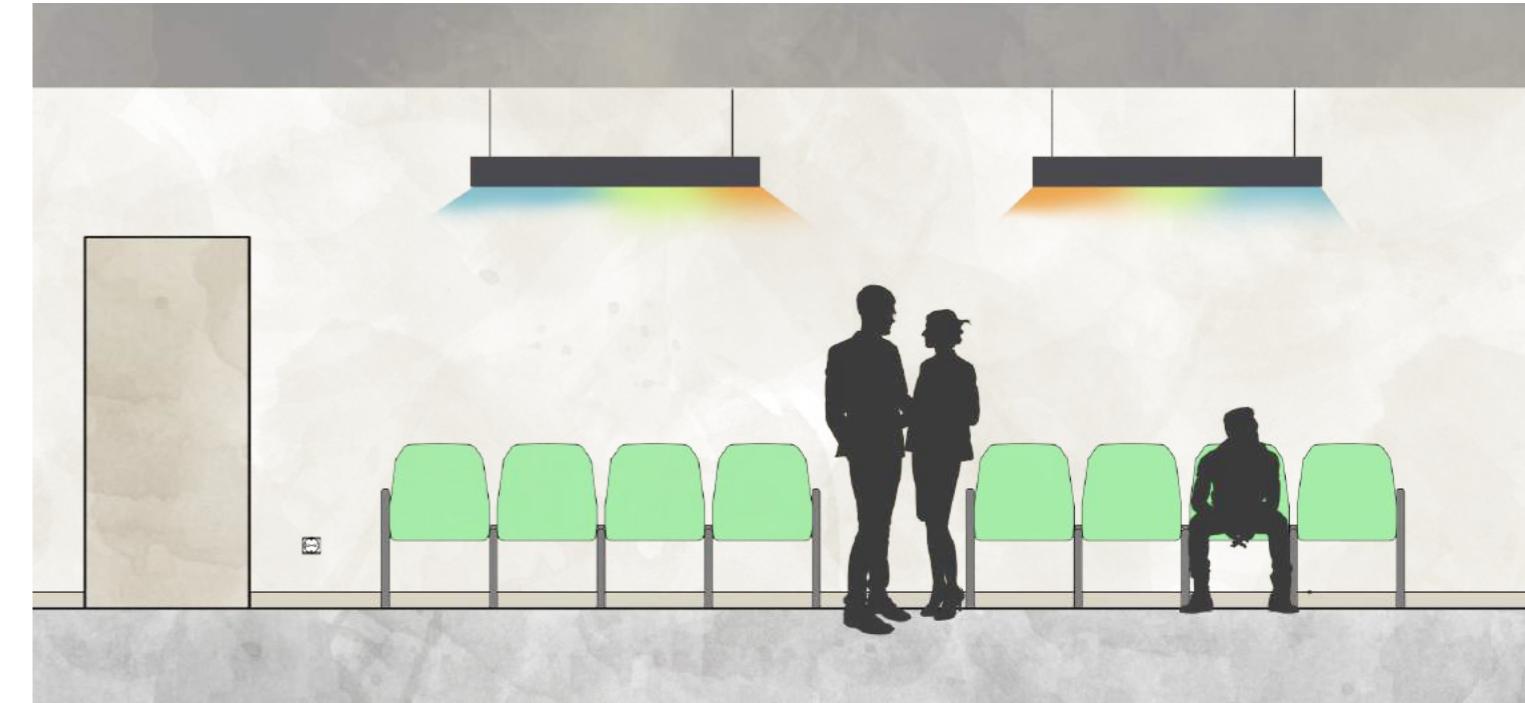
After investigating any potentially issues I noticed that in their waiting rooms the noise was excessive. So, I made a rigorous study about: the amount of noise that there was, how it could affect health and how it could be reduced.

The main idea of the project is based on a study that affirms that lighting make people aware of their noise levels, so they

can be decreased.

Sonaria is an acoustic LED panel that reduces noise both passively (with shapes and acoustic absorbent materials) and actively through lighting (with a range of circadian colors that don't disturb patients).

Additionally, it also provides useful data for the medical center to better know how to distribute their rooms according to the noise of their costumers.



SOUND MAPS



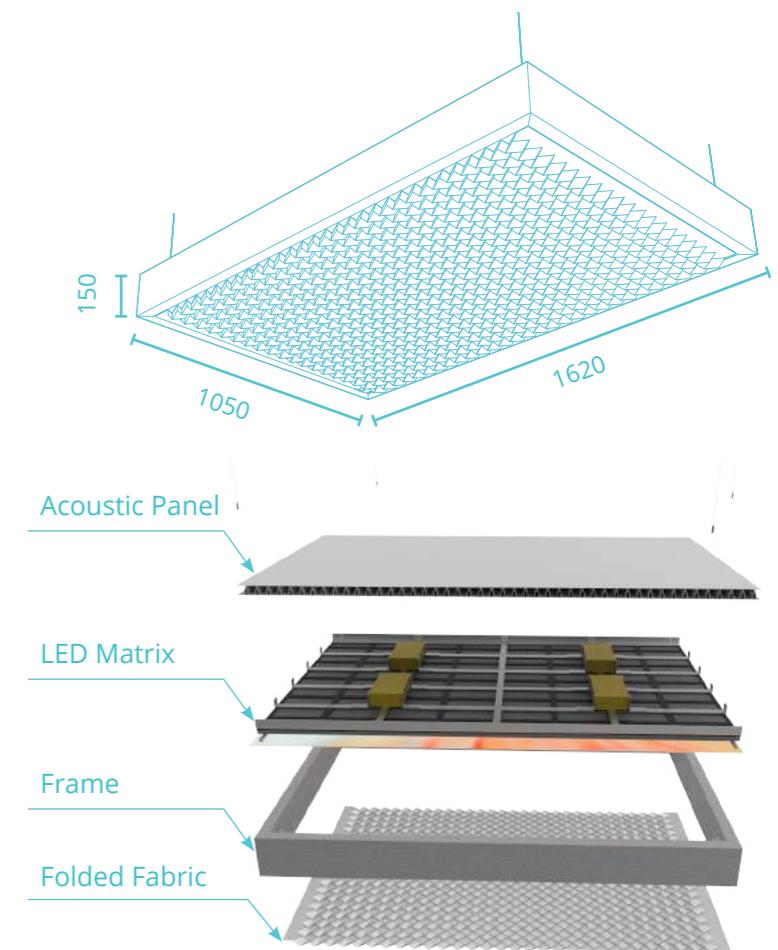
STATISTICS



NOISE ALERTS



REAL-TIME CONTROL



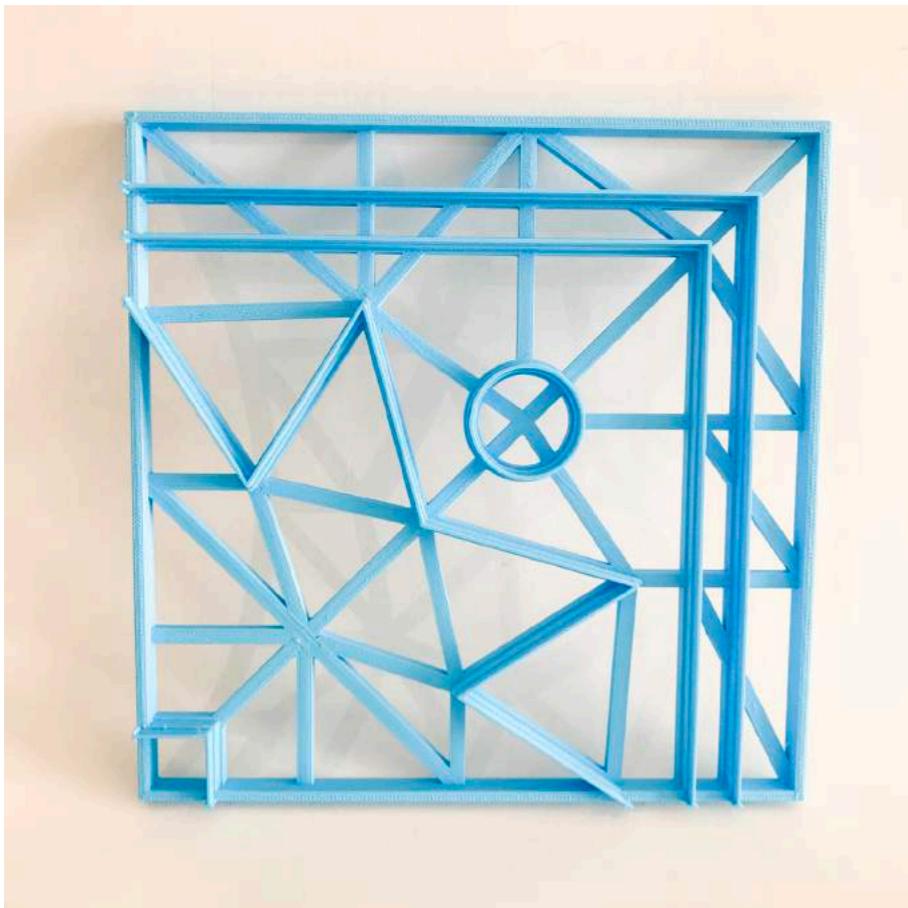
3 D M O L D S /

PROJECTS

(2019- until now)

Design of 3D Printed Molds for
Encaustic Cement Tiles

Company / Mosaic Girona
Manager / Francesc Xuclà
Team / Individual Prooject

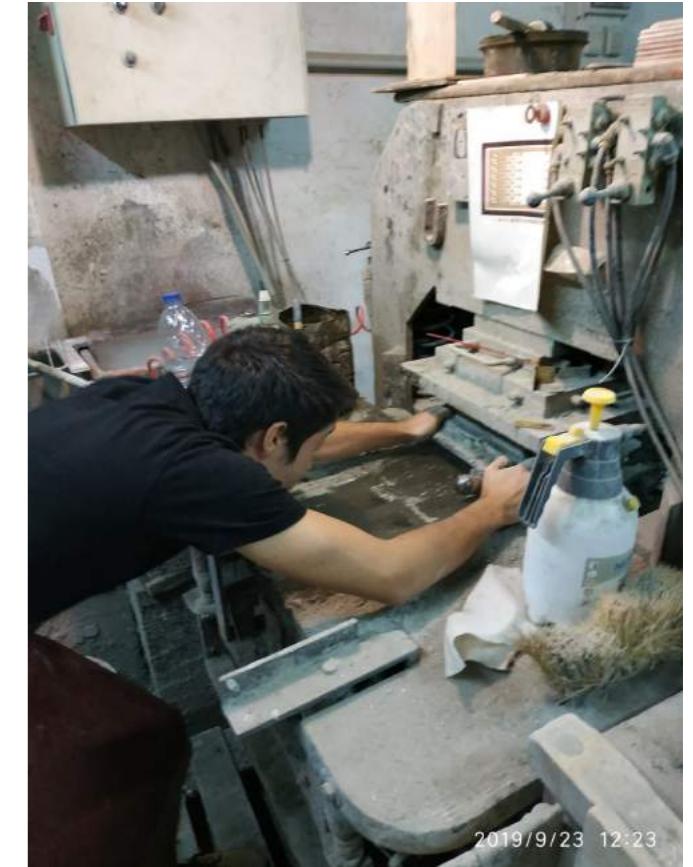


Once I finished the career I looked for ways to implement my 3D printing knowledge in the real life.

I received a project from "Mosaic Girona" a active company in design and manufacturing of encaustic cement tiles. They contacted me to design 3D printed molds to replace the handmade brass molds. Beacuse the traditional ones where very expensive and difficult to make.

So, I designed 3D printed molds in order to reduce time and costs. The most challenging part was to design a rigid structure to not let the the mold flex and let the paste go through other parts of the mold.

I really appreciate this project due to the big knowledge I have achieved in tolerances and structures. This task is still in progesse because the are sending me new models to make molds.



/UX UI DESIGN

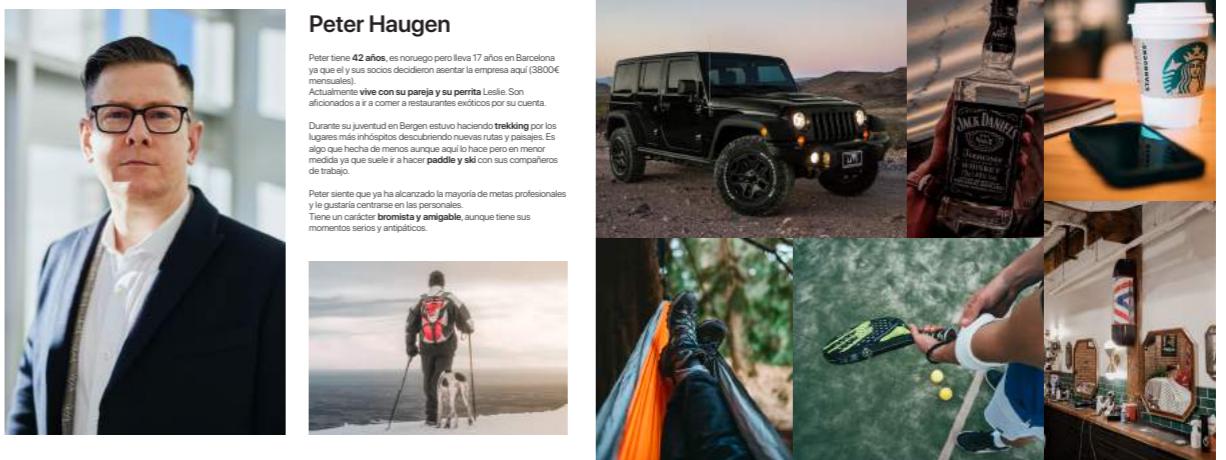
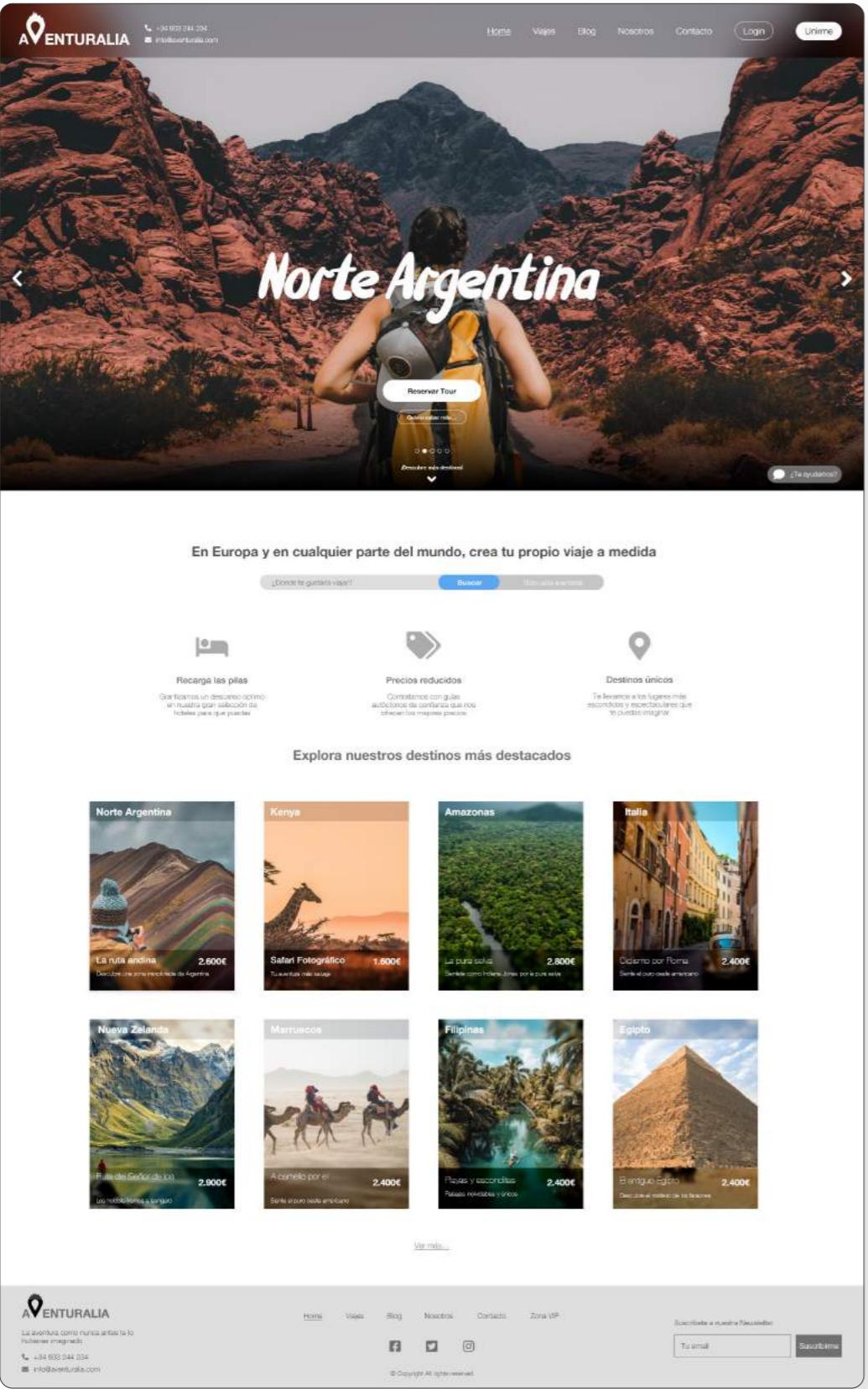
AVENTURALIA /

/ UX / UI

UX/UI Course (2020)

Design of a website for adventurer travelers

Center / CIFO la Violeta
Tutor / Oscar Eroles
Team / Individual Project



The aim of this course has been to design a prototype of an adventure travel website called Aventuralia.

In the first instance I performed a user analysis, following the user-centered design methodology. I did a user journey map, empathy map, mood board, etc. Then I did a bench mark to study the competitors, and finally some user surveys.

After this analysis, I made a wireframe with only one navigable route. The wireframe itself should be accessible and usable without the need for help of graphic

material.
After the design phase, I did more user surveys in order to detect problems and solve them.

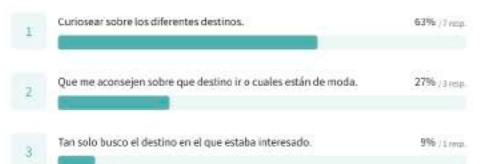
Afterwards, the prototype of the web is designed with all graphic material, getting as close as possible to the functional product, even designing animations.

Finally, all the components are prepared for export in order to make it easier for the programmers.

Encuesta

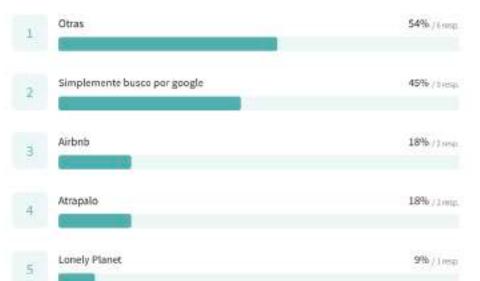
Estas preguntas han sido respondidas por los compañeros del propio curso. En el caso ideal, se deberían de haber realizado con el usuario planteado inicialmente o parecido. Igualmente nos aportan un gran información para la mejora de la experiencia en nuestra pagina web.

Qué esperas al entrar en una pagina web de viajes?



Esta pregunta quizás no es la más óptima para ser respondida por los compañeros, ya que ellos no tienen planteado comprar un viaje o quizás no se han puesto en el lugar del usuario final. En todo caso vemos que igualmente el hecho de curiosear es un aspecto importante y el usuario puede tomar esta decisión al entrar en la web.

¿Qué páginas web de viajes utilizas?



La idea de esta pregunta era descubrir que empresas de la competencia suelen utilizar, pero como vemos no ha resultado muy efectiva. Se debería de haber planteado una casilla donde el entrevistado dijese que pagina web suele entrar. También estaría bien retirar la opción de buscar en google, ya que no aporta mucha información.

The image displays a wireframe design system for a brand named 'Aventura'. It is organized into several sections: 'COLORS' showing a palette with hex codes like #050605, #707070, #052605, #0FA7EC, and #FFFFFF; 'TEXTS' showing various font styles including 'Aventura' in a large, bold, italicized sans-serif font; 'LOGO' showing a logo with the word 'AVENTURALIA' next to a location pin icon; 'BUTTONS' showing primary and secondary button styles with 'Book here!' text; 'CARDS' showing a travel card for 'Norte Argentina' with a mountain image, price '2.600€', and a review from 'Martina Pérez'; and 'MAPS' showing two maps of Argentina, one in black and white and another with a grayscale gradient.

Design of a website for
3D manufacturing Service

URL / www.3delightbcn.com
CMS / Wordpress
Team / Individual Project



3Delight is a startup that offers online 3D printing service.

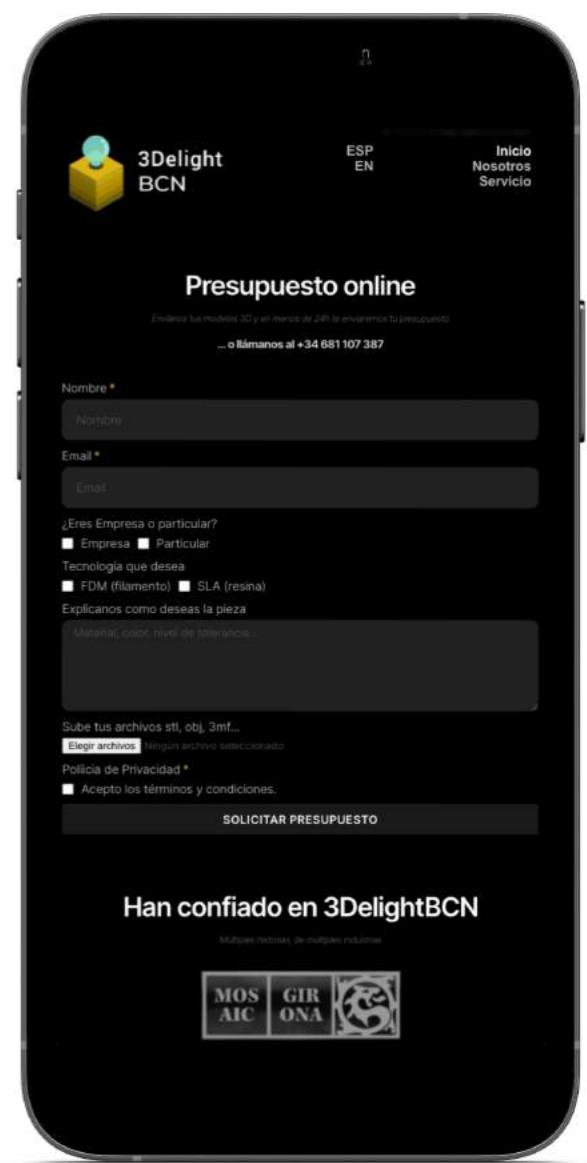
I designed this web page using the user-centered design methodology.

After a wide reasearch over years I identified two type of targets:

Those who do not know about 3d printing but they want to print, mainly 3D modelers.

And, those who know what 3d printing is about, as well as materials and processes. And they have the model ready to print in STL. They are usually engineers.

Therefore, the objective of this website is to make easier the upload of files and contact with the printer persona, and offering a lot of information for those who still do not know the world of 3D printing.



/ PROTOTYPING

DRY ELECTRIC SHAVER

In this case the objective was to model the Philips HQ6996 razor with ceramic materials. I used "Marblecast" (casting gypsum) as the main material for creating the structure. In order to cast this material I made a mold with silicone. For the details like buttons or back shapes I used bicomponent epoxy resin.

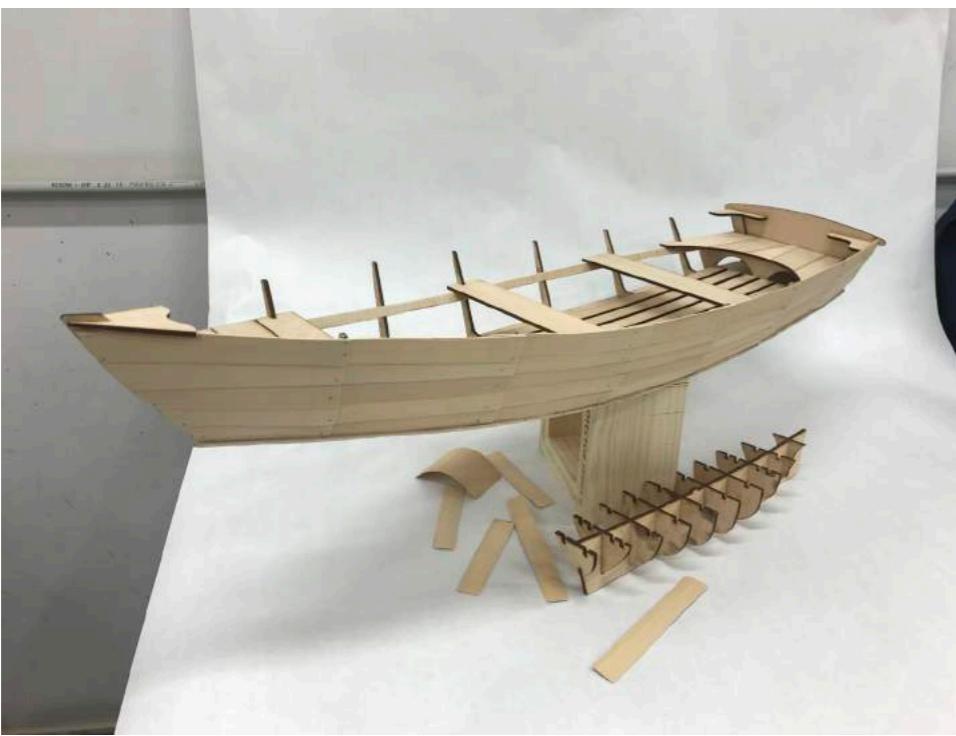
**SPEAKER**

The challenge was to prototype this speaker in order to make it functional. I should consider the distribution of the electrical components inside the speaker, while at the same time I had to take care about the original shapes, colors and textures. I had to master several techniques like sewing, laser cutting, creating a mold, painting, electronics...



BOAT

This prototype must be completely made of wood. I had to be good at steam bending wood, fitting joints, sticking with white glue for wood...

**ARDUINO CIRCUIT**

The inner circuit of Sonaria panel should detect the noise through the microphone.
This noise will change the colors and shapes of the stripe of LEDs (that have individual drivers).

To implement this circuit I used Arduino, a hardware that lets you program a variety of gadgets.

```
LED_CONTROLLER
NEW_SKETCH
SEARCH SKETCHBOOK
INTERACTIVE CODE EDITOR
LED_CONTROLLER
Microcontroller: Arduino Uno
Processor: ATmega328P
Microcontroller Manufacturer: Atmel
Processor Manufacturer: STMicroelectronics
Processor Model: ATmega328P-AU
Processor Frequency: 16 MHz
Processor Flash: 32 KB
Processor RAM: 2 KB
Processor EEPROM: 1 KB
Processor Analog Pins: 14
Processor Digital Pins: 14
Processor PWM Pins: 6
Processor SPI Pins: 3
Processor I2C Pins: 2
Processor ADC Pins: 8
Processor USB Pins: 1
Processor Analog Inputs: 6
Processor Analog Outputs: 1
Processor PWM Outputs: 3
Processor I2C Slave Address: 0x00
Processor I2C Master Address: 0x00
Processor I2C Clock Speed: 100 kHz
Processor I2C Clock Speed: 400 kHz
Processor I2C Clock Speed: 1 MHz
Processor I2C Clock Speed: 3.333 kHz
Processor I2C Clock Speed: 5 kHz
Processor I2C Clock Speed: 10 kHz
Processor I2C Clock Speed: 20 kHz
Processor I2C Clock Speed: 40 kHz
Processor I2C Clock Speed: 80 kHz
Processor I2C Clock Speed: 160 kHz
Processor I2C Clock Speed: 320 kHz
Processor I2C Clock Speed: 640 kHz
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Processor I2C Clock Speed: 117.785493993765688 MHz
Processor I2C Clock Speed: 235.570987987531376 MHz
Processor I2C Clock Speed: 471.141975975062752 MHz
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Processor I2C Clock Speed: 3.6960725305561778 MHz
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Processor I2C Clock Speed: 32.000000000000004 MHz
Processor I2C Clock Speed: 64.000000000000008 MHz
Processor I2C Clock Speed: 132.00000000000001 MHz
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/ 3D PRINTING

MY STUDIO /

CREATE EVERYTHING YOU WANT

Since 3 years ago I fall in love with 3D printing world, my first 3d printer was the FDM Prusa i3 Mk2s, then later I bought the Anycubic Photon as a SLA printer.

I feel that working in this world has opened my mind to create everything without any type of limitations. I know that 3D printing is the future.

Each material must be treated the right way, changing values like nozzle temperature, heated bed temperature, extruding speed, UV exposure...

Experimenting these variations helps me to understand the properties of materials and how my 3d printer interacts with them. The more I try them the more I feel capable to use them in future prototypes or projects.

As well as during my degree I needed to use a 3d printer, my partners also needed it. So, I decided to create my little studio of 3D printing to print their files. Lately, I opened an account in 3D Hubs (a 3D printing service online) named Ruben's Hub.



PLA "Silver"



PLA "Sunshine Yellow"



PLA "Orange"



PLA "Light Ivory"



PLA "Vertigo Grey"



PLA Wood "Cinnamon"



Flexfill 98A "Crystal"



3 D SERVICE / EXPANDING 3 D AROUND THE WORLD



3D HUBS 3D printing CNC Injection Molding How it works My orders Start Manufacturing



Ruben's Hub

Spain > Barcelona > Barcelona (Ciutat Vella area)

Hub Dashboard

Invoices:	Hub can not print invoices
Active since:	June 2017
Response time:	⌚ Responds in 6m on average

Delivery method	Date	Price
MRW	3 - 5 Sept	€ 10,00
Pickup	31 Aug	Free

ONLINE

I offer 3d printing service online through 3D hubs website. I can deliver my orders by picking up in my studio or shipping by post mail.

My work consist in printing the .STL files received from my customers. They write me what type of material, color and quality they want. Sometimes clients need some help with their 3D model. I assist them redesigning it, rescaling or giving some advices.

Once the order is confirmed and paid, starts my printing process with a deadline of 2 working days.

This little business has introduced myself to the market, offering competitive prices, high quality, resource optimization and a good customer service. As a result, I've achieved to be one of the best particular 3D printing studio in Barcelona at 3D Hubs.

OFFLINE

I offer this service at universities, leaving brochures around with information about my service and contact.

This service is more friendly because I have a face to face contact, that let me to argue about their project. I usually give them some samples, photos of the different stages of the printing process, 3d printing timings...

The success of the service let them with a good experience and mouth-to-mouth I grow my business.

I'm an Engineer of Industrial Design, I love experiment with different materials, colors, shapes... That's the reason why I improve every day to make the best 3D printed models. Any doubt don't hesitate to contact with me via 3D Hubs, Thank you!

Soy Ingeniero en Diseño Industrial, me encanta experimentar con diferentes materiales, colores, formas ... Es por eso que cada día mejoro para poder crear los mejores modelos impresos en 3D.
Cualquier duda, no dudes en ponerte en contacto conmigo a través de 3D Hubs, ¡Gracias!

Reviews from our customers

Average	★★★★★ 5.0
Print quality	★★★★★ 5.0
Service	★★★★★ 5.0
Speed	★★★★★ 5.0
Communication	★★★★★ 5.0
 Customer Carla reviewed 3 months ago: Lo recomiendo !	
 Customer Carla reviewed 3 months ago: Muy buen servicio!	
 Customer Paula reviewed 5 months ago: Servicio estupendo, encantada con la calidad!!	

/ RENDERING



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Designed by Apple in California
Assembled in China
Model No.: F194V12dk

Designed by Apple in California
Assembled in China
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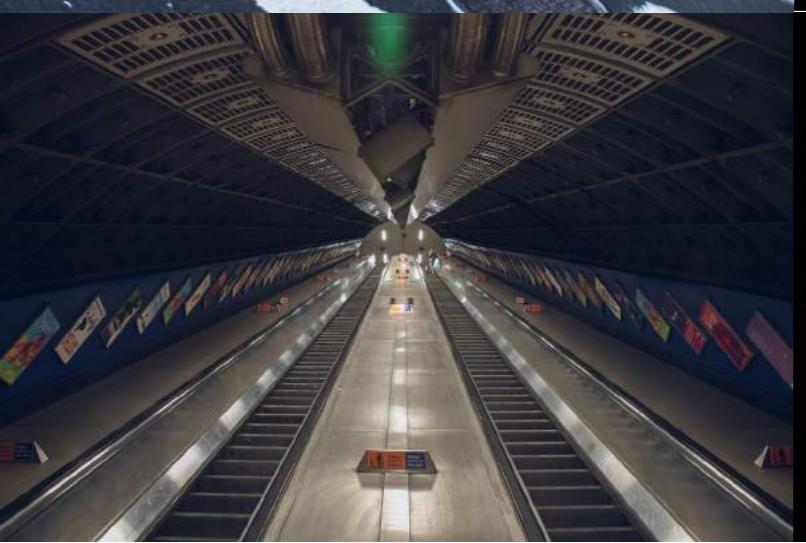
New Lightsaber 8.4 MW

Only for the people who believes in the light side



/PHOTOGRAPHY

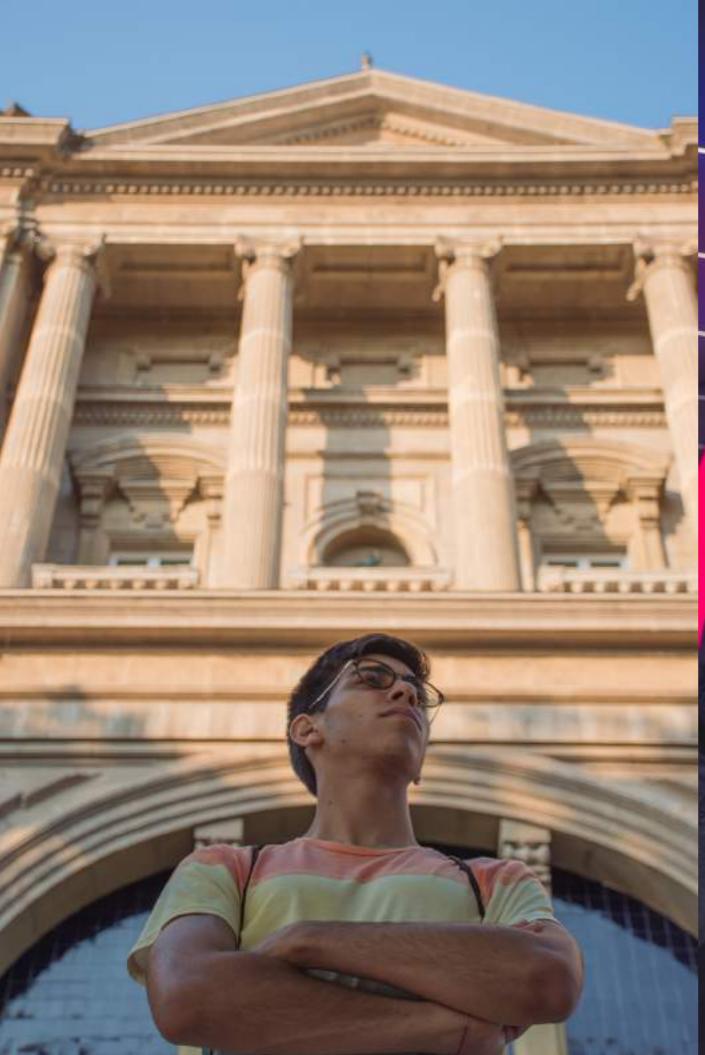
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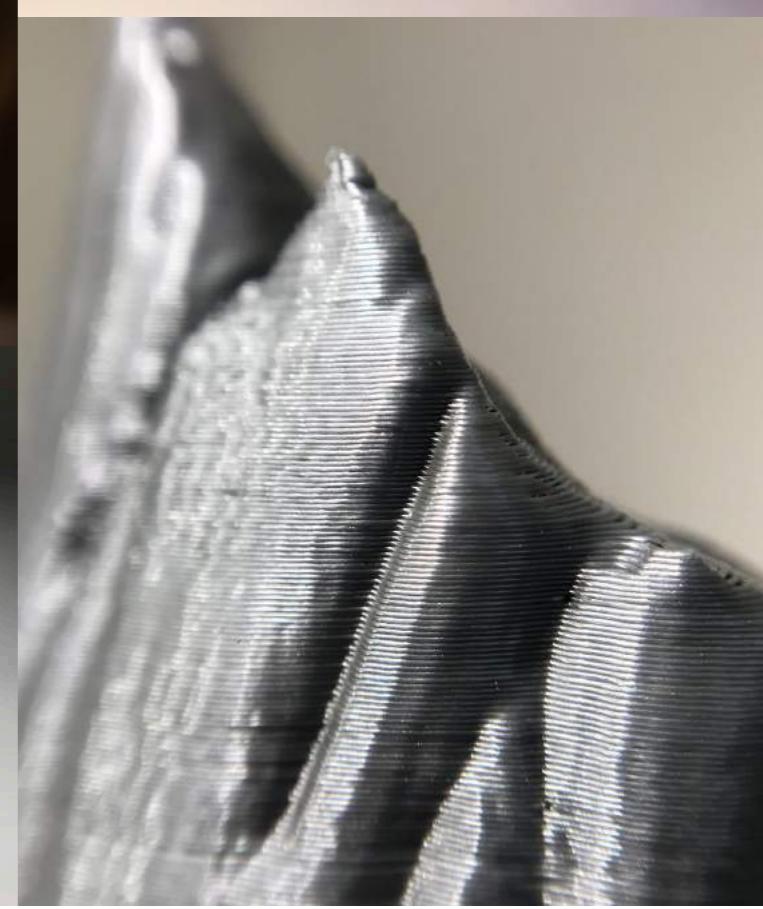
NATURE /



PORTRAIT /



PRODUCT /



CONTACT /



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Rubén Castillo Zambrana

Hope to see you soon!

THANK YOU