***PORTFOLIO 2021***

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# Web Dev

## MatchEat

#### Subtitle

#### Description

#### Process

## g-stocks

#### Subtitle

#### Description

#### Process

## Spot

#### Subtitle

#### Description

#### Process

## Reddon

#### Subtitle

#### Description

#### Process

## This Portfolio

#### Subtitle

#### Description

#### Process

# Game Dev

## NeoWar

#### Subtitle

#### Description

#### Process

## Cubic3D

#### Subtitle

Stack and puzzle the 3D tetrominos to avoid them getting to the top!

#### Description

Both the pieces and the board have three dimensions making this a lot more challenging! Clear whole planes by filling them and try to reach the highest score by clearing four at the same time!

#### Process

Cubic 3D is a game made with Unity targeting the mobile devices. The tridimensional tetrominos have been modeled using the default shapes available in Unity. The game is coded in C# is currently published on the Google Play Store.

## Let’s Drive

#### Subtitle

#### Description

#### Process

## TrickShots

#### Subtitle

Augmented trick-shots using your room and virtual props.

#### Description

Perform limitless trick shots with a holographic tennis ball that will interact with your surroundings. Add an assortment of different holographic objects like a basketball hoop, a paper bin or a couple of teleporting portals. Challenge yourself and achieve bigger combos to get the higher scores.

#### Process

TrickShots is a game made with Unity targeting the HoloLens device by Microsoft. The 3D holograms that can be placed into the world have been modeled using SolidWorks and Maya and textured with Photoshop. The game is coded in C# and build with Visual Studio and is currently published on the Windows Store, available only for the HoloLens device by Microsoft.

## HoloChess

#### Subtitle

The first holographic chess game ever.

#### Description

Play against as AI with three difficulty levels and enjoy the classic game of chess in the augmented world. Choose your favorite style, place the board on your table and enjoy!

#### Process

HoloChess is a game made with Unity targeting the HoloLens device by Microsoft. The distinctively styled chessboards and pieces have been modeled using SolidWorks and Maya and textured with Photoshop. The game is coded in C# and build with Visual Studio and is currently published on the Windows Store, available only for the HoloLens device by Microsoft.

## Escape

#### Subtitle

Escape through the maze using power ups and avoiding the red wall!

#### Description

Use the phones accelerometer to move around a dark maze and collect power ups to escape from the inevitable red wall.

#### Process

Escape is a game made with Unity targeting the mobile devices. All 3D shapes were made using the default shapes available in Unity. The game is coded in C# is currently published on the Google Play Store.

## Infinity Gallery

#### Subtitle

The biggest collection of pictures in the world, for a specific kind of pictures.

#### Description

All the pictures in Infinity Gallery are 64 by 64 pixels and in grayscale, using 64 shades of grey. The reason the Infinity Gallery is so big is because it contains every combination possible of this finite number of pixels and gray tonalities. Exactly 1.29 x 107398 pictures. You’ve read this number quite fast, and you’re probably not grasping how enormously big that is.

So, what are the implications of this? In this Gallery you can find every single picture (with those properties) that has been taken in the past and that will be taken in the future. It even contains all the pictures that will never be taken. There is a 64x64 grayscale version of every picture you have posted and will ever post on social media, of each planet in the Universe and each species that may or may not live on them. There is also a picture of those keys you lost a few years ago in the exact location they are now. The only hard task is finding them. Good luck!

#### Process

Infinity Gallery is an app made with Unity targeting the mobile devices. All images been made using Illustrator and Photoshop, and Wolfram Alpha was used to create the algorithm to encode the images. The app is coded in C# is currently published on Google Play Store.

## Portal

#### Subtitle

#### Description

#### Process

# Product Design

## SmartBike

#### Subtitle

Electric and foldable, the perfect city bike.

#### Description

SmartBike is a design concept aimed at improving individual mobility at cities. It uses airless tires without spokes that revolve around the static rim. The back wheel has an electric motor with batteries allocated in the tube.

This bike is can fold to occupy the minimum amount of space. Both wheels retract, and the tube folds on its middle. Once folded the wheels align perfectly which allows users to pull the bike instead of carrying it.

#### Process

Smartbike was the final project for the 3D Modeling subject at EINA, University School of Design and Art. It was modeled with SolidWorks and animated using KeyShot. The final images were made using the KeyShot renders and Photoshop.

## HoloLens 2

#### Subtitle

All in one: holographic computer and over-ear headphones.

#### Description

This is concept inspired by the HoloLens device by Microsoft. The holographic screen can be rotated until it disappears when not needed. The headset can be controlled with tactile controls on the right ear-cup as well as hand gestures.

When needed the screen can be pulled down, which resumes the last session. With this design, the device becomes, portable, multifunctional, and avoids the lack of familiarity that the current design iteration has.

#### Process

HoloLens is a concept project modeled using SolidWorks and animated with KeyShot. It only represents a proof of concept and helps visualize how holographic computers could integrate with currently existing devices.

## Gwood

#### Subtitle

Wood-based furniture showcased at 'Feria del Hábitat Valencia 2014'

#### Description

Gwood is a partnership formed by several students from the 3rd and 4th year from the product design degree from EINA, school about design and art, from Barcelona.

What was presented at Feria del Hábitat Valencia 2014 is a furniture family entirely made from beech and maroon details, designed for its placement in small rooms so to be able to better use the little space capacity they offer and the tiny useless nooks they often generate.

#### Process

Gwood is a project made by students of EINA, University School of Design and Art for the Hábitat fair in Valencia 2014. Gwood was divided in five groups. The lounge chair was modeled with SolidWorks and made at EINA's workshop.

## Orbit

#### Subtitle

A concept for an all-in-one device. Tablet, Laptop & Desktop computer using a foldable screen.

#### Description

Orbit is a computer screen with three configurations, and some variants. When opened flat it has a 21.2-inch screen that can be placed in a stand to work as a full desktop computer. When opened a quarter of the way, to be used like a laptop, the lower part of the screen will display a keyboard or application specific controls. And when completely folded backwards the device can be used as a tablet.

This concept uses a foldable screen and a 360 hinge to allow its rotation.

#### Process

Orbit was the final career project at EINA, University School of Design and Art. It was modeled using SolidWorks, rendered, and animated with KeyShot and edited with Photoshop. It's a proof of concept for an All-In-One device.

## Showbattle

#### Subtitle

A battle card game inspired by popular tv-shows.

#### Description

Composed by more than two hundred cards ShowBattle features the characters, locations, and items from eight different tv-shows. Up to four players compete and fight using the strengths and weaknesses inspired in events of the shows with lot of 'fan-service' interactions between cards.

Each card can have attack power, defense, the number of locations required to use it, and its different effects. Also, each one has a quote from its show.

#### Process

ShowBattle is a personal project that was completely created using Photoshop. Al the images used are property of the original show producers. The cards were printed once for personal use.

## Smartwatch

#### Subtitle

A new intuitive way to check the time.

#### Description

Apart from its appearance, the goal behind this project was finding out a new way to display the time. Analogic watches have been around for so long that the position of the needles has become something very intuitive for all of us. On the other hand, digital clocks can display the time in a faster and easier way.

This concept tries to use the best of both worlds by displaying the time digitally in the position the needles would be. Making it intuitive and fast to read.

#### Process

SmartWatch is a project modeled and rendered using SolidWorks for an early project at EINA, University School of Design and Art. The time display method is an original idea animated using Flash Pro.