2018 Portfolio

2018 Portfolio

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Academic studies

1. **2011**

   Building Engineer (Arquitecto Técnico)

   UEM (Madrid, Spain)

2. **2012**

   Building Energy certification course

   COATM (Madrid, Spain)

3. **2014**

   Traditional wood-building intensive course

   Shelter Institute (Maine, US)

4. **2018**

   Master Degree Parametric Design in Architecture

   UPC (Barcelona, Spain)

Latest experience

1. **2011-2013**

   Web-designer / Community Manager

   Versalia Traducción (Madrid, Spain)

2. **2013-2015**

   Founder & Construction Manager

   DBS (Querétaro, México)

3. **2015-2017**

   Real Estate Agent

Engel&Völkers / Vivienda2 (Madrid, Spain)

4. **2018**

   Took a year to study!

   Unnemployed

Projects

Geodesic Patterns for Freeform Architecture

Master Thesis - C# Implementation

Architectural Geometry
Fabrication-aware design
Freeform architecture

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Details

Author:

Alan Rynne

Date:

September 2018

Website:

http://bit.ly/geoPattrn

Grade:

10/10

University:

ETSAV - UPC

Rhino

Grasshopper

C#

Optimization

Panneling with Planar Hexagons

Complex panneling solutions
Architectural geometry

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Details

Author:

Alan Rynne

Thiago Medeiros

David Granzewich

Date:

September 2017

Website:

www.rynne.es

Site:

Barcelona (Spain)

Det.title:

Some detail…

One thing

Second

More stuff

And another

…

The last one!

Chebyshev Net Generation

Grasshopper component implemented in C#

Gridshell design
Active-bending structures

Chebyshev nets are a spetial kind of 3D grid composed only of segments of equal length. They are of special interest when designing elastically-bent gridshells, since the equal length property guarantees that the grid could be assembled ‘flat’ on-site, and later bent to it’s final shape by either manual or mechanical means.

Details

Author:

Alan Rynne

Date:

January 2018

Website:

http://bit.ly/chebNet

Det.title:

Some detail…

Grasshopper

Rhino

C#

Triangular Gridshell

Design & Construction of an actively-bent dome

Active-bending
Dome structure
Elastic membrane

Details

Author:

Alan Rynne

Martina Fabré

Jatziri Rodriguez

Noelia Rodriguez

Christian Dimitri

Martí Sais

Date:

June 2018

Photo cred.:

Andrés Flajszer

ø6m

GRFP

C# Architectural Geometry Library

Compatible with Grasshopper and Dynamo

C#
Open Source
Grasshopper
Dynamo

After finishing my Master's Degree, I started an Open Source project to bring together all the scripts I have been developing into a more accessible and easy to use library. Currently, it supports basic mesh operations based on the 'half-edge mesh' concept, geodesic paths on meshes by solving the 'initial value problem' and the generation of geodesic patterns for panelization with planks, and other utility algorithms like water-drainage on meshes, calculating level-sets, etc. This library is still a work in progress.

Details

Author:

Alan Rynne

Date:

October 2018

Website:

www.rynne.es

Status:

Under development

Cutty Sark Pavillion

A case study

Hybrid structures
Building adaptation
Lightweight construction

Details

Author:

Alan Rynne

Uri Lewis

Date:

February 2018

:

Urban Landscaping

Random rooftop park designer

Usiing Rhino+Grasshopper as the main tools

Details

Author:

Alan Rynne

Date:

May 2018

3D Printing & CNC Machining

DIY build for hobby purposes

Do It Yourself
Digital Fabrication
Electronics
Technology

Details

Author:

Alan Rynne

Date:

2014-2016

CNC Machine:

Shapeoko

3D Printer:

Prusa i3

Urban Data Exploration

Extraction and Analysis of urban public records in Vacarisses.

Details

:

DIY Autonomous Drone

Construction of a UAV

Do It Yourself
UAV
Electronics
Technology
Arduino

Details

Author:

Alan Rynne

Date:

2015-2016

UAV Platform:

Ardupilot

You can always contact me at...

www.rynne.es

/alanrynnevidal

/AlanRynne

alan@rynne.es

... or download my updated documents from:

cv.rynne.es portfolio.rynne.es