

CURRICULUM VITAE

**Alan Rynne Vidal**

*Building Engineer
Computational Designer*

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Availability:
AUG.2018

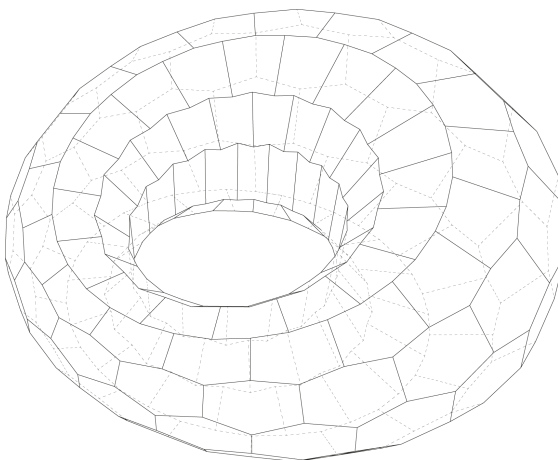
About me

I am a Building Engineer with a broad skillset ranging from Architectural Design & Construction Management to Web & Software Development; I have a keen eye for detail and experience in sales and client relationships.

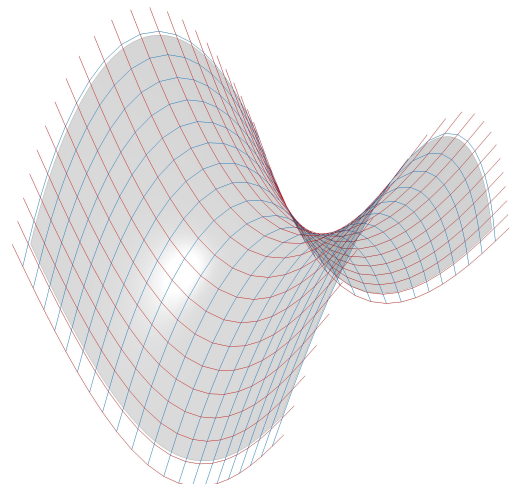
I am a quick study with a proactive mentality and am passionate about rationalizing freeform surfaces in Architecture; optimizing structural behavior and construction processes; and developing new tools with C# to help in those tasks.

Areas of expertise

- Complex 3D Modeling
- Computational Form-Finding & Structural Design
- Design of Discrete Assemblies
- BIM
- Construction Management
- Python & C# Programming
- Interactive Architectural & Data Visualizations
- Workflow Optimization

Some of my latest scripts:

Dupin Cyclide covered in planar hexagonal panels



Hyperbolic Paraboloid covered by a Chebychev Net,
also known as 'compass method'.

Experience

Real Estate Consultant. Vivienda2. Madrid (ESP) — Jan. 17-Jun. 18

Worked in the Sales department from January to March 17, when I was promoted to liaise with property owners.

Web development. 'Marta Cariño'. Madrid (ESP) — Nov. 16-Mar. 17

Design, development & deployment of a the corporate website for a well-known brand of nightclubs in Madrid.

Real Estate Consultant, Engel&Völkers; Madrid (ESP) — Aug. 16-Sept. 17

Working as realtor assigned to 'La Latina' in Madrid's central district until March 2017, when I was promoted to the 'Malasaña' area.

Real Estate Developer & Construction Manager, DBS; Santiago de Querétaro (MEX) — Mar. 14-Jun. 16

Part-owner of DBS, a small company located in Querétaro (MEX) dedicated to the design, development and construction of detached houses (50 to 200 sqm).

Web Development, 'Bhotanical®'; Madrid (ESP) — Jan. 15-Mar. 15

Design, development & deployment of a website for the Bhotanical® brand.

Webmaster, 'TraductorJurado.com'; Madrid (ESP) — Sep. 11-Mar. 14

Design, development & deployment of a new business line focused on the creation of an online shop to offer sworn translation services.

Web Developer, 'DBS.com' — Jan. 14-Mar. 14

Design, development & deployment of a corporate website for the company DBS "Desarrolladora Bahía Santander".

Summer work, Versalia Traducción S.L. — 2007-2011 (June to August)

Office administration & basic English/Spanish and Spanish/English translations under supervision.

Education

Universitat Politècnica de Catalunya (ETSAV), Barcelona (ESP). Master's Degree in Parametric Design in Architecture, Oct. 2017- present

Oriented to the integration of computational tools and digital manufacturing technology in building systems and architectural design.

Universidad Europea de Madrid, Madrid (ESP). Arquitectura Técnica (Building Engineering), 2011

Graduated in 2011 from the UEM with a 10/10 grade in the final project.

ControlMad, Madrid (ESP). 3D Modeling & Digital Fabrication. June 2017

Intensive course in 3D modeling of complex organic shapes using the Rhino software along with parametric design plugin Grasshopper3D, taught by ControlMad.

COATM (Madrid Building Engineer's Association), Madrid (ESP). Building Energy Rating (BER) Course. Nov 2013

12-hour course taught by Madrid's Official Association of Building Engineers on new legislation and requirements relating to BER, and the use of the Spanish government's official software to issue building energy rating certificates.

Shelter Institute, Maine (USA). Pure Post & Beam Wood Construction Course. April 2013

7-day course in traditional building techniques with wood, taught by The Shelter Institute in Maine. During the course, we learned how to dress wooden beams, carve the necessary joints and assemble a 2-story wooden frame using only manual labor (no electric tools).

Hobbies & extracurricular activities:

I like doing DIY projects with a certain degree of complexity; some of my past projects have included:

- Building a 3D printer;
- Building an Arduino controlled desktop CNC machine;
- Building a fully autonomous drone
(including designing and 3D printing the structural body).

My next project will be building a 6-axis desktop-size robotic arm.

I also love playing strategy board games such as Carcassonne and Settlers of Catan, binge-watching series, cooking, baking, and camping.

✦ Technical Skills

Languages:

- Spanish
- English

Computer programs:

- Rhino + Grasshopper3D
- Revit BIM + Dynamo
- ArchiCAD (including Grasshopper3D interoperability)
- AutoCAD
- CYPE (Structural, MEP, Cost-Control)
- Microsoft Office Package (& Macros)
- Programming Environments: XCode & Visual Studio
- Unreal Engine
- Web animations
- CMS platforms (Wordpress, Magento)

Programming languages (in order of skill):

- C# (Scripting & App Development)
- Python
- HTML5 & CSS
- Apple's Swift + Obj-C
- Javascript
- LaTeX

Basic web server deployment & maintenance

Entry-level knowledge of Cloud Computing & Neural Networks

Other:

Driving License (B2)

Dual Nationality (Spanish and Irish)

Availability to relocate and travel.

📶 Additional Information

For more information about me, please visit:

- A. My personal webpage www.rynne.es
- B. My LinkedIn Profile: www.linkedin.com/in/alanrynnnevidal
- C. My Open Source algorithms and scripts can be found on my GitHub Page: www.github.com/AlanRynne
- D. I also recently wrote a small guide about scientific publishing using Markdown+Pandoc that you can find at: alanrynnne.github.io/Scientific-Paper-Tutorial