

La Pendentia: A Community-Led Suspension Bridge Project in the Swiss Alps

La Pendentia is a slender suspension bridge in the Swiss Alps that blends digital precision with ecological sensitivity. Designed using Rhino and Grasshopper, it showcases how thoughtful engineering and community collaboration can shape resilient, elegant infrastructure.

The Design of the ‘Mountain’ Slide: Reviving Play

The ‘Mountain’ slide reimagines playground design with dynamic parametric curves, inspired by nature and play. Modeled in Rhino and crafted in lightweight yet durable FRP, this award-winning structure captivates children with its endless loops of movement and imaginative forms.

“Exploring Climate-Driven Design”

Climate Driven Design I is an essential resource for architects, engineers, and sustainability professionals aiming to master net-zero building design. Authored by Christoph

Reinhart, a leading expert in sustainable architecture and building science, the book provides a comprehensive framework for understanding atmospheric and thermal conditions in and around buildings.

Architecture Students Fabricate Sculptural Benches at the University of Houston

The Infill Bench project at the University of Houston brought together architecture students and cutting-edge 3D printing technology to create sculptural outdoor seating using additive manufacturing. By leveraging Rhino, Grasshopper, and industry partnerships, students explored complex geometries and innovative material applications, leaving a lasting impact on the campus design.

Behind the River Plate Facade: A Digital Approach

Dive into the innovative design and digital fabrication process behind the parametric facade of the River Plate Football Club parking structure. This story highlights the use of Rhino, Grasshopper, and various plugins to tackle complex challenges and achieve an efficient and visually dynamic result.

Revolutionizing 3D Concrete Printing with Selective Paste Intrusion and Spherene

Scawo3D's Selective Paste Intrusion (SPI) technology, demonstrated at BAU 2025, pushes the boundaries of 3D concrete printing by enabling the creation of complex, precise load-bearing structures. Computational design tools like Spherene for Rhino/Grasshopper allowed the project to showcase a new era of architectural fabrication, where form, function, and sustainability converge.

“Brilla la Tradición”: The 2024 Christmas Lighting Design in Envigado, Colombia

This year's Christmas lighting project in Envigado, Colombia, titled Brilla la Tradición, transformed the city with over 4,500 hand-crafted figures, combining traditional holiday symbols with cutting-edge design and production techniques.

Thrill Island: Designing Adventure on the Icon of the Seas

Thrill Island aboard Royal Caribbean's Icon of the Seas combines storm-ravaged tropical aesthetics with cutting-edge computational design, utilizing Rhino and Grasshopper to craft immersive attractions like waterparks and adventure courses, while overcoming production challenges for a first-of-its-kind cruise ship experience.

The Katajanokan Laituri Façade: Computational Design Meets Nordic Timber

The Katajanokan Laituri in Helsinki showcases a groundbreaking fusion of timber construction and computational design, with Geometria Architecture crafting a complex, curved façade that ensures both structural integrity and aesthetic continuity while optimizing the fabrication process.

Flow: Parametric Techniques

for a Meditative Retreat

Flow, an innovative geodesic dome project at Universidad del Sinú in Colombia, leverages parametric design to create a meditation space that harmonizes structure, light, and natural ventilation for a serene and uplifting experience.