

Mangrove: A Record-Breaking Glass Sculpture by Nikolas Weinstein

Suspended in the grand atrium of Solaire Resort North, Nikolas Weinstein's record-breaking glass sculpture Mangrove redefines architectural art. Drawing inspiration from the intricate roots of native mangrove trees, the monumental 27-meter-tall installation combines 11 kilometers of borosilicate glass tubing with advanced digital tools like Grasshopper.

Ica & Kostika's Mycelium Sneakers: Pushing Boundaries in Design and Technology

Ica & Kostika's Mycelium Sneakers combine 3D printing with a unique design inspired by mycelium growth. Using Rhino3D for precise modeling and adjustments, the sneakers are made from a recyclable elastomer, offering comfort and breathability. Initially launched as an NFT, the project overcame production challenges and expanded through strategic partnerships, showcasing the potential of technology in footwear design.

“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.

Exploring the TYR Car: SCAD's Off-Road Electric Vehicle Innovation

The TYR car, designed by SCAD students, is an off-road electric vehicle that combines sustainability, cutting-edge tools like Rhino, and innovative manufacturing techniques to meet the eco-conscious and adventurous lifestyle of Gen Z.

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.

Pedorthic Information Modeling: Revolutionizing Orthopedic Footwear with 3D Printing and Computational Design

Developed by footwear engineer Daniel Petcu, Pedorthic Information Modeling (PIM) revolutionizes the design of orthopedic footwear by combining parametric design principles with 3D printing. This innovative approach allows for fully customizable, functional, and stylish medical footwear, overcoming the limitations of traditional hand-made methods.

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.

Crafting Stories in Jewelry: Ana Rubio's Approach to Digital and Handcrafted Design

Ana Rubio blends traditional craftsmanship with modern technology, using Rhinoceros 3D to create jewelry that tells unique stories through natural, geometric, and symbolic designs.

The Yamma Pedestrian Bridge:

Enhancing Infrastructure Rhino.Inside.Revit

Urban Through

Spearheaded by Robert Bird Group, the Yamma Pedestrian Bridge in Brisbane exemplifies cutting-edge engineering and urban connectivity driven by parametric design. This project sets a new standard for efficiency and collaboration in urban infrastructure, revolutionizing bridge design with dynamic, adaptable models and seamless data exchange through Rhino.Inside.Revit.

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.