

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.

The Aether Concept Car's Revolution in Electric Vehicle Design

Aether, a full-scale electric concept car designed by SCAD students, combines intricate parametric design with advanced additive manufacturing to craft its interior and exterior components. Using tools like Rhino 8, Grasshopper, and Multi-Jet Fusion technology, the team created flexible, resilient structures and intricate lattice patterns.

Gerard Furbershaw: From Industrial Design to Art

Furniture

Gerard Furbershaw's transition from industrial design to art furniture merges precision engineering with artistic expression. Using digital modeling and layered materials to craft unique sculptural pieces, his work redefines furniture as "art you can sit on."

Alejandra Alfaro's CAD to Casting Journey at Milano Jewelry Week

Discover how Alejandra Alfaro's innovative use of CAD and digital fabrication techniques led her to win the prestigious Artistar Jewels Network Award at Milano Jewelry Week 2024. Her striking silver rings, crafted without traditional molds, perfectly blend artistry and technology, pushing the boundaries of modern jewelry design.

Optimizing with Grasshopper and DefinitionLibrary: Arup's Solar-Efficient Community

Arup's sustainability team utilized digital tools like Grasshopper and DefinitionLibrary to optimize house placements

for a gated community, enhancing passive solar performance and creating a data-driven master plan that balances design preferences with energy efficiency.

Vintersol: Redefining the Relationship Between Architecture and Nature

Originally designed for the Hello Wood Argentina festival, this installation reimagines architecture's interaction with its environment, blending computational design with a responsive, fluid aesthetic.

Parametric Paving: A New Layer of Design

The Parametric Paving project by LANDAU, in collaboration with Crowley Cottrell, uses parametric tools to create complex yet constructible paving designs within strict constraints.

Vortex Facade for ExpoCamacol Medellín 2024

The Vortex project by Doblamos for ExpoCamacol Medellín 2024 features a striking facade with circular waves. Using Grasshopper to manipulate metal sheet sections, its innovative design showcases the potential of computational tools in creating visually dynamic architectural surfaces.

Imagining Sustainable Design: The Longsheng Yoga Pavilion

The Longsheng Yoga Pavilion by Helena Riesenberger, a digital project conceived within the serene landscapes of the Longsheng Rice Terraces in China, exemplifies a forward-thinking approach to sustainable design.

Circular Economy in Action: The Wood Project

The Wood Project by MANUFACTURA and La Metropolitana uses Rhinoceros and Grasshopper to convert sawdust into 3D-printed architectural elements, demonstrating the potential of computational design in sustainable, circular economy practices.