

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.

Pinko Takes Off: Parametric Retail Design at Rome Fiumicino Airport

At Rome Fiumicino Airport, Pinko's new flagship store merges fashion and technology through a parametric design inspired by the brand's signature patterns. Brought to life with robotic 3D printing using Rhino and Grasshopper, the space sets a new standard for sustainable, regulation-compliant retail architecture.

Twister: A Parametric

Approach to Floral Design

Twister by Berfin Erdogan is a parametrically designed flower pot that merges organic forms with computational precision. Inspired by natural spiral patterns, the design features a twisting wave texture on top and a Voronoi base that enhances airflow and structural stability. Created using Rhino and Grasshopper, Twister exemplifies how parametric design tools can combine aesthetic fluidity with functional efficiency, offering customizable and sustainable design solutions.

The Evolution Collection by Naman Choudhary: Parametric Jewelry as a Reflection of Identity

In The Evolution Collection, Naman Choudhary harnesses parametric design to craft intricate jewelry pieces that symbolize personal growth and transformation. By blending digital precision with traditional craftsmanship, the collection showcases the potential of computational tools in contemporary jewelry design.

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.

Cnidaria Pavilion: A Novel Approach to Load-Bearing Architectural Skins

The Cnidaria Pavilion, developed at the Université de Montréal's School of Architecture, showcases an innovative approach to large-span, doubly curved structures using lightweight aluminum sheets. Combining computational design with manual folding and snap-fit assembly, the pavilion demonstrates a new structural system that balances efficiency, aesthetics, and rapid fabrication.

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.

From Code to Clay: 3D Ceramic Printing at 3D Clay Summer School

At the 3D Clay Summer School, designers and researchers push the boundaries of ceramic fabrication through robotic extrusion and computational design. Datura Sculpture showcases how parametric modeling and advanced toolpath scripting transform raw clay into intricate, organic forms.