

Reimagining Prosthetics: A Parametric Foot Cover

Franziska Hagenauer's project transforms prosthetic design through a parametric foot cover that highlights, rather than hides, the underlying technology. Developed at Controlmad using Rhino and Grasshopper, the design merges biomimicry, digital fabrication, and personal expression.

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.

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.

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.

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.

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.

Bringing Concepts to Life: Parametric Wall Creations at UDLAP

Students at Universidad de las Américas Puebla drew inspiration from oceanic and solar themes to transform abstract concepts into striking wall pieces using parametric design.