TV Head Guy: From Digital Sketch to Life-Sized Installation

Brooke Pennington’s TV Head Guy is a larger-than-life sculptural piece brought to life through a fusion of digital design, CNC fabrication, and character storytelling. Developed as an independent study, the 6-foot figure showcases Brooke’s skill in Rhino, RhinoCAM, ZBrush, and physical prototyping.

Unroll, Design, Reroll: Creating Ceramic Textures with Rhino

Jenna Richards developed a custom ceramic texture roller using Rhino’s modeling tools and 3D printing, transforming precise digital patterns into tactile clay impressions. The project explores the challenges of wrapping geometry around cylindrical forms and refining prints for hands-on ceramic use.

Speculating Futures: DeNile’s

Vision for a Water-Adapted Egypt

DeNile is a speculative design project by students at Coventry University Cairo that envisions adaptive futures for Egypt in response to rising sea levels. Through floating farms, vertical aquaculture, and digitally modeled hybrid systems, the project reimagines survival in a water-transformed landscape.

Resonant Landscapes: Architecture in Tune with Sound and Place

In Resonance, architect Diana Fox transforms Antwerp’s Theatreplein into a public soundscape where architecture acts as both stage and instrument. The project explores how spatial form, acoustic tools, and nature converge to create a living theatre district.

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.