

# **The Brick Screen: A Parametric Reinterpretation of the Traditional Jali**

The Brick Screen, designed by Muhammad Talha Muftee and Shaikh Abdul Basit for the Arts Council of Pakistan Karachi, reimagines the traditional jali through parametric design. Using Grasshopper, the architects combined local masonry craft and digital precision to create an environmentally responsive brick façade that has set a new precedent for computational design in Pakistan.

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# **Parametric Sculptures for PUMA: Digital Precision in Antofagasta**

A pair of monumental parametric pumas, installed at PUMA's Antofagasta store, showcases how digital design, CNC fabrication, and meticulous layering can transform feline anatomy into striking sculptural forms.

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# **Adaptive Fashion: Designing**

# **with Body Data**

Adaptive Fashion is a design research project by Laura Civetti that transforms body data into generative garment patterns using Rhino and Grasshopper. By translating information such as posture, curvature, and stress zones into computational rules, the project prototypes adaptive clothing systems with 3D printing, paving the way for highly personalized, high-performance fashion.

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## **Navatu: Redefining the Waterslide Experience**

From zero-gravity drops to underwater views, Navatu redefines the waterslide with a manta-inspired design shaped in Rhino and recognized with the IAAPA Brass Ring Award.

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## **Del Rio Skate Garden: Where Skateboarding Meets Ecology**

The Del Rio Skate Garden in Texas is the world's first municipal skate garden, merging flowing concrete terrain with native desert ecology. Designed and built by skateECOSYSTEMS using Rhino 8, it redefines the skatepark as both civic artwork and living landscape.

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# **A Sculptural Table for ETT's Sala Demo**

Architect Valentina Serando designed a sculptural glass and resin table for ETT's Sala Demo in Genoa, using Rhino SubD to translate fluid, organic forms into a precise, manufacturable object. The result is a centerpiece that fuses technology, craft, and design in a dynamic dialogue with space and light.

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# **Tips & Tricks: Mastering Clipping & Section Workflows in Rhino 8+**

Learn how to master clipping and section workflows in Rhino 8 and later, using powerful tools to create precise, professional section views and prepare models for documentation or fabrication. Enhance your workflow with SectionTools and Rhino's built-in features.

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# **Waffle-Structured Chair:**

# Exploring Robotic Manufacturing in Design Education

A team of DIA Master's students at Hochschule Anhalt explored computational design and robotic manufacturing by creating a full-scale, waffle-structured ergonomic chair, combining efficiency, ergonomics, and sustainability. Exhibited at Campus Fest 2025, the project showcased the potential of digital workflows and robotic fabrication in architectural education.

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## Digital Shingles: Interactive Robotic Shingle Facade Assembly

The project "Interactive Robotic Shingle Facade Assembly" explores how traditional Swiss woodcraft can be reimaged through digital technologies. This interactive installation invites visitors to customize shingle facade patterns via an intuitive interface and watch a robotic arm assemble their designs in real-time. The installation showcases the potential of robotics and parametric design to revive craftsmanship while promoting sustainable, adaptable architecture.

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# **“Exploring Computational Design: La Geometrica Encyclopedia, Volume 0.1”**

La Geometrica Encyclopedia, Volume 0.1 – 2D: Computational Design Fundamentals by Javier Martínez Gaxiola introduces the core principles of computational design through diagrams, case studies, and hands-on digital resources that were created with Rhino and Grasshopper. A living encyclopedia, it invites readers to explore and contribute to the evolving language of geometry and computation.