From Sculpted Forms to Functional Geometry: Fresco Design’s Helmet Exploration

Fresco Design combines Blender, Rhino SubD, and Grasshopper to explore helmet design, transforming sculpted forms into editable geometry, developing parametric lattice cushioning, and producing physical prototypes.

From Shoe Lasts to Printed Molds: An Evolving Rhino Workflow in Footwear

René Medel’s work offers a view of how Rhino workflows in footwear have expanded from modeling lasts and soles to generating internal structures and designing production tooling. Light Tube Foam Sole brings those methods together in a 3D-printed mold developed at framas.

Continuous Curves, Rotating Forms: A New Approach to

Ceramic Printing

What if clay 3D printing could move beyond stacked layers? Mark Meier’s experimental rotary-axis process combines Rhino, Grasshopper, Python, and robotic fabrication to draw continuous ceramic patterns directly onto rotating 3D forms, creating remarkably light and intricate structures.

Parametric Adaptive Shell for an Autonomous Stock Handling Robot

Designed for a real-world logistics automation platform, this project explores how Rhino and Grasshopper can be used to develop adaptive industrial components that balance structural performance, mechanical constraints, ventilation, and manufacturability within a fully parametric workflow.

From Form-Finding to Fabrication: Pabellón Generativo Michoacán

A generative pavilion built in Morelia, Mexico, explores how form-finding, Voronoi-based segmentation, and digitally fabricated nodes can translate computational logic into a

lightweight physical structure assembled from recycled CPVC components.

VITRO-P: Generative Design for Customizable Vascular Networks in Optical Tissue Phantoms

A generative design workflow built in Rhino and Grasshopper is redefining how vascular systems can be simulated, fabricated, and studied. VITRO-P introduces a flexible, fabrication-agnostic approach to creating customizable tissue phantoms with embedded vasculature, bridging computational design and biomedical research.

Casa Fratelli: Generative Growth within a Historic Ruin

A parametric liana composed of 1,000 3D-printed elements reclaims a historic ruin in Bucharest, using generative design and custom fabrication workflows to merge light, material, and growth logic.

Itaca: Parametric Design and Large-Scale 3D Printing for a Self-Sufficient Farm

A 3D-printed building developed with Rhino and Grasshopper explores how parametric design and large-scale additive manufacturing can support self-sufficient living systems and circular construction models.

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.

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.