Aion: Turning History into Morphology

Designed for Southeastern Louisiana University’s centennial anniversary, Aion transforms institutional memory into inhabitable geometry. Developed through Rhino and Grasshopper, the monument combines parametric thinking, site analysis, and fabrication logic to create a public installation where history, movement, and community intersect.

EcoHouse: Material Efficiency and Digital Control with Rhino and VisualARQ

A compact house in Florianópolis demonstrates how Rhino and VisualARQ can drive material efficiency, reduce waste, and translate a fully controlled digital model into precise on-site construction.

Helical Timber Staircase: Parametric Design and

Fabrication of a Non-Standard Geometry

This project explores the design and fabrication of a non-repetitive helical staircase, where parametric workflows and NURBS modeling enable precise control over complex geometry.

Marquise H.V: Parametric Canopy and Digital Fabrication in Teresina

A fully parametric canopy composed of 210 unique glass panels showcases how computational design and digital fabrication can be successfully implemented beyond major urban centers.

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.

Drawn in Code, Cast in Concrete: The MCIC Monumental Stair

At the Madera Cyber Innovation Center, a monumental stair became the centerpiece of both design ambition and collaborative execution, a sculptural concrete and glass feature shaped by computational design and realized through a fully coordinated digital workflow. This project showcases how advanced modeling tools can turn complex architectural visions into buildable, precise outcomes.

Oberhauser’s Balloon: Parametric Control and Large-Scale Concrete 3D Printing

A 3D printed concrete lamp that embraces its own layered logic, the Oberhauser’s Balloon demonstrates how parametric modeling and Selective Paste Intrusion can redefine scale, precision, and expression in outdoor lighting.

Recreating 1950s Medellín:

Scenic Design Powered by Rhino

Blending music, memory, and digital design, La Sociedad de la Cumbia recreates the spirit of 1950s Medellín through a carefully crafted scenic production built with Rhino 3D.