

# **Live LLM Data to SubD Geometry: A Biomimetic Workflow in Rhino 8**

By integrating a live LLM API directly into Grasshopper, Malvina Stamatiadi transforms AI-generated coordinate data into a biomimetic SubD lattice inspired by dragonfly wing venation, resulting in a 3D-printed lamp that bridges artificial intelligence and physical craft.

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# **Epicycloid Blossom: A Parametric Lighting Piece Shaped by Geometry, Python, and AI-Assisted Design**

Epicycloid Blossom is a digitally developed sculptural lighting piece generated from the mathematical behavior of the epicycloid curve. Although the piece was not physically fabricated, the project reached full production-ready documentation and stands as a refined example of AI-assisted parametric design.

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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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# 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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# Behind the River Plate Facade: A Digital Approach

Dive into the innovative design and digital fabrication process behind the parametric facade of the River Plate Football Club parking structure. This story highlights the use of Rhino, Grasshopper, and various plugins to tackle complex challenges and achieve an efficient and visually dynamic result.

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## 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.

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## An Innovative Exhibition Stand at CES by Simon

# **Vorhammer & Atelier Grande**

An example of innovative thinking and temporary architecture, combining aesthetic appeal with functional brilliance to create an engaging and educational experience for visitors.

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## **Arloize: Turning Wood Scraps into Personalized Clocks**

The Arloize project repurposes wood waste into functional art, empowering makers to create modern yet traditional clocks while promoting environmental sustainability and local craftsmanship.

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## **The Carapacks Pavilion: A Hexagonal Innovation**

The Carapacks Pavilion features a versatile design suitable for wooden pavilions, roofs, and facades, showcasing architectural exploration and collaboration through innovative design and digital integration.

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# Hive Project: Nature-Inspired Kinetic Architecture

The cooperative behavior of honeybees inspires the Hive project's modular design. Just like bees create a wavelike cascade by 'shimmering' when threatened, the project's core system tessellates any geometry into hexagons.