Designing Adventure at Sea: A Student’s 100-Meter Luxury Superyacht

SCAD senior Holladay Crook designed a 100-meter luxury superyacht concept that blends sculptural form with refined functionality. Developed in Rhino and brought to life through a 1-meter 3D-printed prototype, the project showcases advanced modeling, meticulous fabrication, and a narrative-driven design approach.

Thinking in Code: First-Year Towers from Ain Shams University

First-year architecture students at Ain Shams University utilized Grasshopper to design and fabricate parametric towers, learning to think like system designers from day one. The course emphasized algorithmic logic, data structures, and generative workflows to build not just models, but design intelligence.

Astroid: A Parametric Ergonomic Mouse Built with Rhino

The Astroid 7000 is a parametric, ergonomic 3D mouse that revives the legacy of the original Spaceball using Rhino as a central tool for design, prototyping, and engineering. This case study highlights how digital modeling can transform legacy concepts into responsive tools for today’s designers.

3DCITYGH: A Parametric Workflow for Digital Urban Survey and City Information Modeling

3DCITYGH presents a modular parametric workflow for generating structured City Information Models from survey data and point clouds, enabling efficient urban-scale modeling for risk assessment, heritage documentation, and structural analysis. Developed within Grasshopper, the approach combines AI-assisted segmentation, custom semantic structuring, and BIM/FEM interoperability.

Tips & Tricks: Exploring New Curve Editing Features from Rhino 8 to Rhino 9

Explore how Rhino 9’s new features like Instant Aliases and the Fence trim option streamline curve editing, improving workflows started in Rhino 8. Discover tips to speed up creating and trimming curves with these powerful tools.

Digital Clay: A New Layer at the Natural History Museum

At the Natural History Museum’s new Fixing Our Broken Planet gallery, digital design meets sustainable craftsmanship through 3D printed ceramics. Using Rhino and Grasshopper, the team developed modular components that bring innovation to a heritage space without leaving a trace.

ShaperBay: A Browser-Based Platform for Custom Surfboard Design and Fabrication

ShaperBay is a browser-based platform that empowers users to design and export custom surfboards using parametric tools

powered by Rhino and Grasshopper. Its standout Hollow Wood Structure (HWS) feature supports the fabrication of sustainable, high-performance wooden boards through laser-cut templates and intuitive digital workflows.

Pushing the Limits of Offshore Racing: IMOCA Partners with Orca3D

IMOCA has partnered with Orca3D to bring advanced stability analysis and streamlined design workflows to the world of offshore racing. By leveraging the modeling power of Rhino, this collaboration helps teams build faster, safer, and more consistent IMOCA 60 yachts for the world’s most demanding ocean races.

Bio Corallo: A New Biomaterial for Digital Craft and Architecture

Bio Corallo is a lightweight, bio-based ceramic composite developed by Ana Bridgewater that merges digital craft with ecological material research. Made from porcelain and tapioca starch, the project explores how computational design and sustainable thinking can reshape the future of lighting,

architecture, and modular fabrication.

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.