A Jewelry Design Challenge brings out the excellence of Tec de Monterrey students

Kinetica's Triumph at Expo Dubai

A Mexican firm innovated with 42 AV and sound pods

Master Rhino and Grasshopper with *How to Rhino*

The Barcelona Collection, A Fusion of Technology and Tradition in Spanish Jewelry

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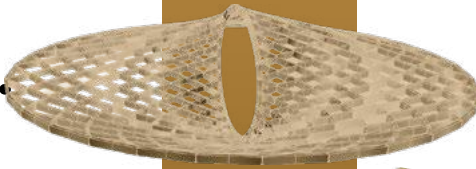## McNeel Asia

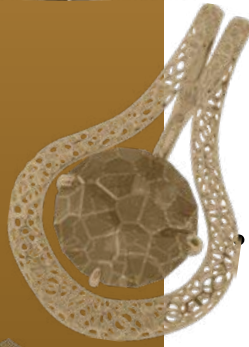146 N Canal St, Suite 320
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Image by Gijs de Zwart

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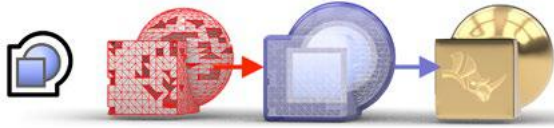
CONTRIBUTORS & ACKNOWLEDGMENTS

What's new in Rhino 8

Explore new features in Rhino 8, including ShrinkWrap, faster rendering, SubD Creases, enhanced drafting tools, customizable UI, and much more. **Click on any of the following features to get more information.**

ShrinkWrap: Turn Garbage To Gold

ShrinkWrap creates a watertight mesh around open or closed meshes, NURBS geometry, SubD, and point clouds: ideal for creating meshes for 3D printing.

Built for Mac

Rhino for Mac is faster than ever, running natively on both Apple Silicon and Intel Macs, and using the Apple Metal display technology. We've also brought the User-Interface on Mac closer to its Windows sibling...

SubD Creases

SubD Creases create a feature between a smooth and a sharp edge, without adding complexity to the SubD control net, great for making fillet-like features.

Modeling: Simplified

Rhino 8 unlocks new modeling workflows — like PushPull — and adds intuitive new features to the Gumball, Automatic CPlanes, and more...
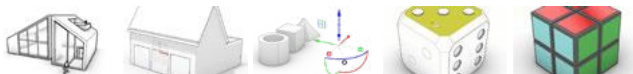
Clipping and Sectioning

Rhino 8 introduces several clipping and sectioning enhancements to help support drafting and fabrication workflow.

Presentation

In Rhino 8, we've updated the Cycles Render engine, smoothed out the UV Workflow, improved our procedural textures, added a display mode, and more...

Grasshopper: Rhino Data Types

Rhino Data Types allow you to bake geometry with custom attributes, import more file formats, control blocks, use native materials in the display pipeline, create hatches and annotations, and many other expanded workflows...

Rhino Refined

We've fixed hundreds of bugs, but we've also added new Linetypes, improved Mesh Booleans, enhanced our surface editing tools, and more...

Development Platform

Rhino 8 brings a new code editor, support for CPython and .NET 7, major improvements to our free SDKs, API refinements, and some major new features that broaden and deepen the foundations of the geometry development platform...

And More

Looking for a complete list of new commands? If you're not seeing what you're looking for above, please check out the documentation's New in Rhino 8 for a complete list...as well as new command options.

Max Utilization: 174 %

0%	
10%	
20%	
30%	
40%	
50%	
60%	
70%	
80%	
90%	
100%	
>100%	
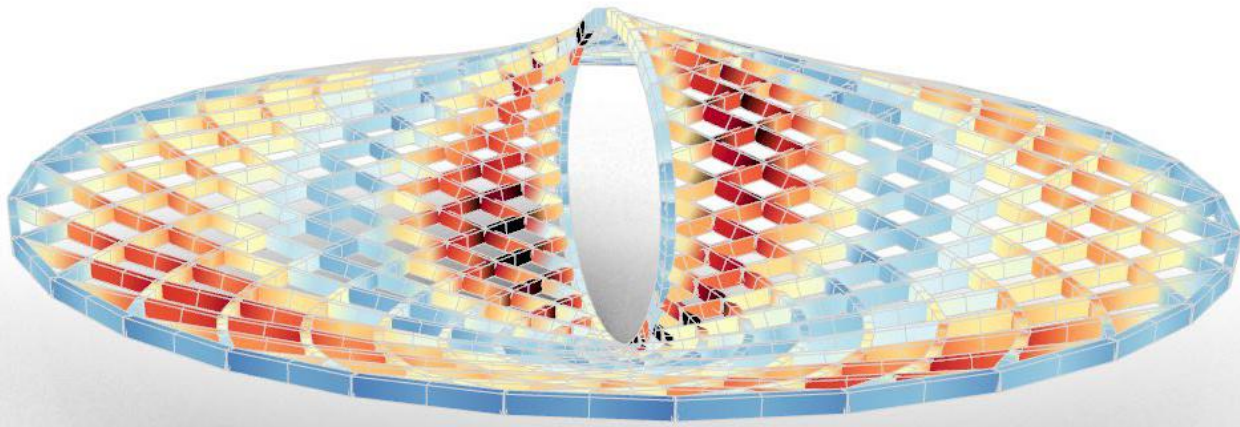
Beaver

by Beaver Parametric

Category: Structural Engineering

Beaver, an innovative tool designed following Eurocode 5 standards, is transforming timber engineering in computational design workflows.

Seamlessly integrated with **Karamba3D**, it efficiently validates framed cross-sections, deformations, and timber connections.

Key to Beaver's appeal is its transparency, offering calculation reports for result checking and avoiding the "black-box" perception. This encourages better benchmarking and educational usage.

Highlighted in a recent paper at the World Conference on Timber Engineering 2024, Beaver's generic solver facilitates the exploration of construction tectonics, enabling experimentation with bending-active systems and iterative procedures.

Parametric timber engineering tools
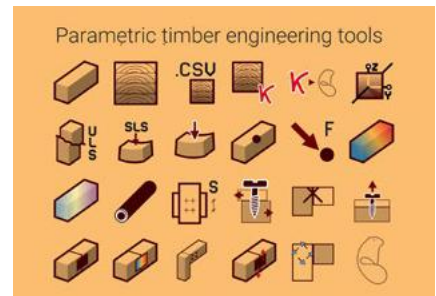
By pairing Beaver with parametric design and optimization tools, designers can validate experimental concepts, ensuring adherence to structural engineering standards. Beaver marks a new era, fostering creativity and efficiency in timber engineering.
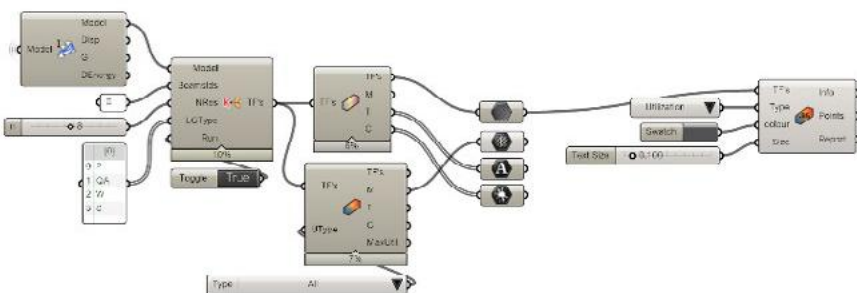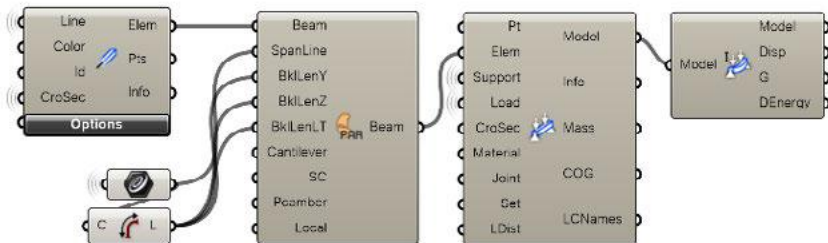
Land Kit training at Design Workshop in Denver, CO

Land Kit

by LANDAU Design+Technology

Category: Landscape Architecture and Site Design

Land Kit is at the forefront of revolutionizing landscape design through its 3D digital tools and templates, streamlining workflows for both professionals and enthusiasts.

Land Kit's features cover key aspects of landscape design:

Planting:
Simplify and customize designs; seamlessly export to CAD, Revit, Rhino, Lumion, and more.

Paving:
Expedite design with efficient tools for CAD or rendering.

Topography:
Effortlessly create and modify features, overcoming challenges of elevated contours.

Water:
New tools for water and carbon analysis seamlessly integrate into design workflows.
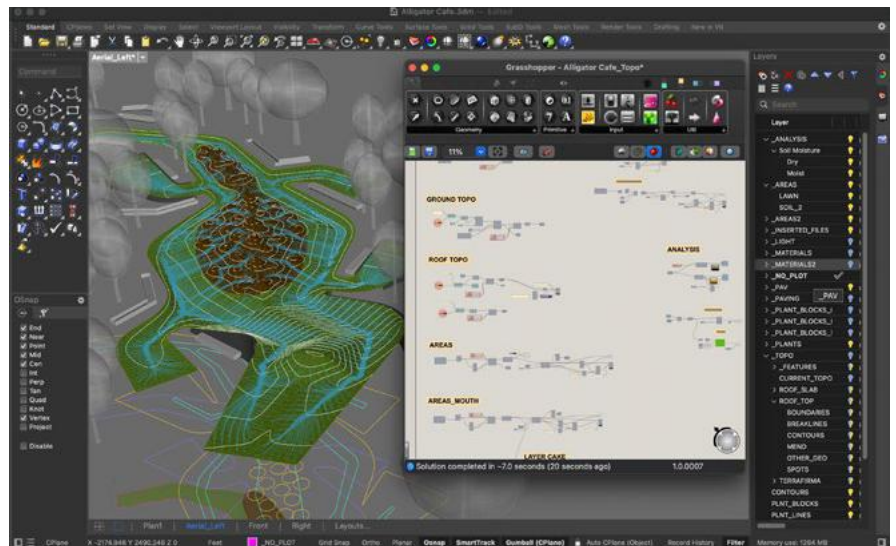
Versatile for landscape, planning, engineering, and architecture professionals, Land Kit's 1.3 Stability Release on Mac brings improvements, including simplified carbon calculations, enhanced wall drawing, and error removal—all in the free version. This underscores Land Kit's commitment to accessible and powerful design tools, which invite users to upgrade their landscape processes with supercharged workflows and cutting-edge features.

The recent 1.3 Stability Release introduces crucial enhancements, cementing its value in the field. Click HERE for more details.
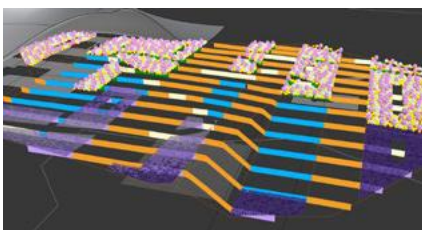
Tips & Tricks

Elevate Your Rhino Game: Think you know it all? Click now and unravel a collection of game-changing tips & tricks!

Offset Closed Regions
Rhino 8

Layer Section Style
Rhino 8

Model On and Off
Rhino 8

Move and Hide Layer Columns
Rhino 8

Search Layers
Rhino 8

Organize Layers
Rhino 8

The Barcelona Collection, A Fusion of Technology and Tradition in Spanish Jewelry

The global competitiveness of the Spanish jewelry industry is undergoing a pivotal transformation – adapting production mechanisms to new technologies, leveraging top-tier human capital, and optimizing production costs and timelines. At the forefront of this evolution is the Barcelona Collection, a paradigm of artistic ingenuity and technological innovation, resulting from the convergence of two industry professionals: **Chesco Díaz**, a jeweler, educator, and 3D jewelry modeling software distributor, and **Egor Gavrilenko**, a geologist, gemologist, and precision lapidary master.
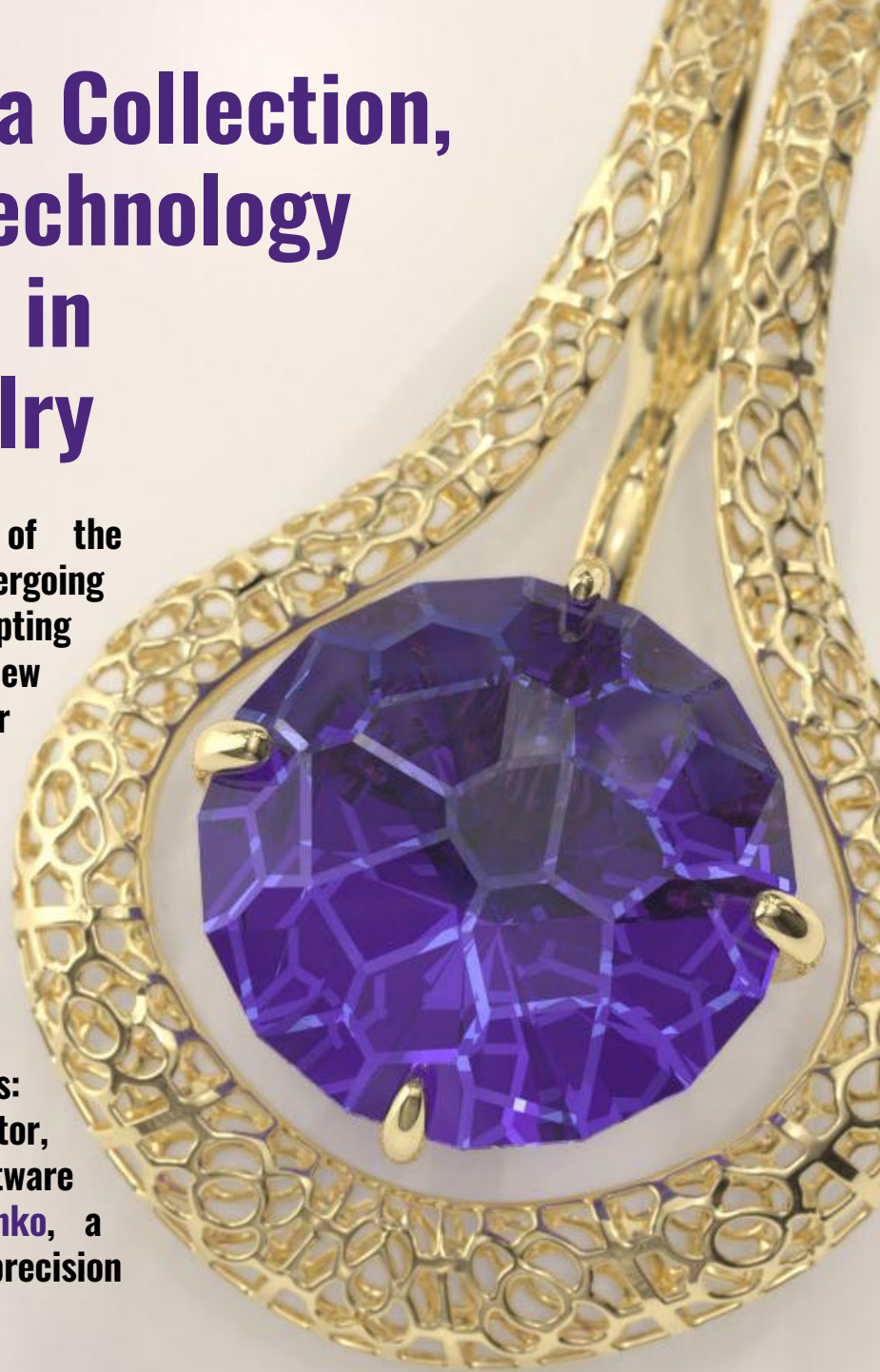
The piece *Esclava Dio* is inspired by the door of the Diocesan Museum of Barcelona and was modeled using *SubD*.

Origins and Evolution of the Barcelona Collection

The Barcelona Collection didn't germinate from commercial motives but sprouted as a conceptual exploration by Chesco Díaz. Motivated by the architectural wonders of Barcelona, Díaz sought to encapsulate the city's essence within a unique jewelry line. Informed by personal experiences and proficiency in 3D modeling, the collection became a canvas for expressing Barcelona's charm through intricate jewelry design.

Díaz's primary goal extended beyond crafting a new jewelry line; it aimed to materialize an idea inspired by reflections on Barcelona's architecture. Strolling through the city streets, he drew inspiration from elements like lanterns, floor tiles, and wrought iron balconies. The Barcelona Collection took shape through the plasticity offered by 3D modeling, enabling Díaz to transform his ideas into tangible, wearable art.

Trencadis pendant inspired by Gaudí's work.

Egor Gavrilenko's Gem Cutting Expertise

The Barcelona Collection extends beyond design to the realm of precision gem cutting, curated by Egor Gavrilenko. Inspired by Gaudí's trencadís technique, Gavrilenko's meticulous work mirrors shattered tiles, creating gems with matte edges to replicate the iconic mosaic gaps. His approach distinguishes itself from conventional methods, emphasizing precision and the artistic merit of each facet.

Sizing tests on resin models with Egor's lapidary work for the *Trencadís* ring. / Finished piece.

The Role of 3D Modeling in Jewelry Design

Díaz accentuates the transformative influence of 3D modeling on the creative process. It provides the flexibility needed for rapid iterations and real-time adjustments. The marriage of design and modeling skills is pivotal, empowering designers to embody their ideas without intermediary distortions. The efficiency of 3D modeling not only expedites the creative journey but also streamlines cost-effective production.

The genesis of the collection for Chesco also served as an exercise in knowledge and development of organic modeling techniques within **Rhino**, particularly with the advent of **SubD** in Rhino 7. In the refinement and modification phase, parametric modeling becomes crucial for Chesco, facilitated by **MatrixGold**, a jewelry software that provides him the flexibility needed for swift design alterations.

The *Trencadís* cut was created using **Gem Cad Studio** software, featuring natural amethyst and citrine, each faceted to 20.54 ct and 7.05 ct, respectively.

Revolutionizing Gem Cutting with 3D Scanning

Egor Gavrilenko sheds light on the cutting-edge technology embraced by the Barcelona Collection—3D scanning. These advancements revolutionize the planning process for gem cutting from rough crystals. Fragments of minerals often possess irregular shapes, making it challenging to envision the ideal cut for the finished gemstone.

Incorporating 3D scanning, the rough crystal can be scanned to create a detailed 3D model. This model facilitates "virtual faceting" on the computer before the actual cut, ensuring precise planning. Egor highlights the efficiency of photogrammetry software like **AliceVision Meshroom** and **3DF Zephyr**, providing excellent results in scanning rough crystals.
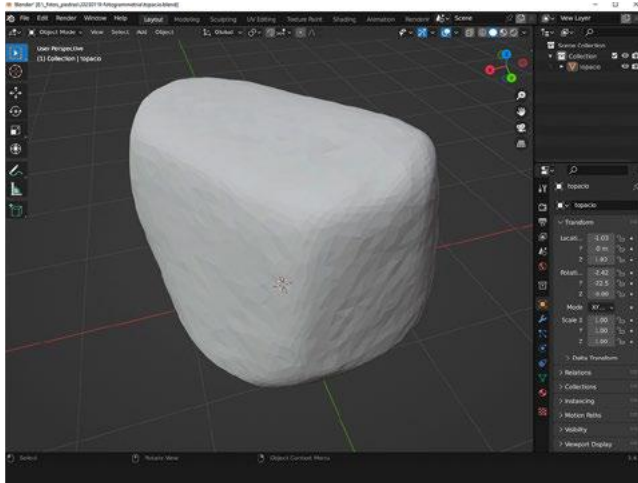
3D scanned model of rough topaz, approximately 2 cm in length, created using Photogrammetry and AliceVision Meshroom software. / 3D model of a faceted tourmaline, weighing 2.81 carats, scanned using Sarine DiaScribe.

Beyond gem cutting, 3D scanning proves invaluable for jewelry designers working with unique, non-symmetrical gemstones. **Sarine DiaScribe** scanner captures highly accurate 3D models of cut gems. These models seamlessly integrate into design programs, allowing designers to build settings that account for the unique shapes of each gemstone.

Panot Barcelona ring.

Centenaria ring.

Preserving Symbolism in Jewelry

Chesco's commitment to the Barcelona Collection goes beyond aesthetics. In an era where jewelry often prioritizes fashion and ephemerality, Díaz seeks to reclaim the symbolic essence of the art form. The collection pays homage to influential jewelers, reviving a sense of personal and cultural expression through each carefully crafted piece. He shares, "In the '90s, I fell in love with the work of significant jewelers in Barcelona, such as Raimon Ollé, Aureli Bisbe, Montserrat Guardiola, Teresa Casanovas, Puigdoria... They were a significant influence on me, practicing a form of jewelry that is challenging to find today. Humbly, this collection aims to be a tribute to that generation of creators, seeking in its form an expression of art that can be worn..."

In the convergence of gem cutting, 3D scanning, and symbolic artistry, the Barcelona Collection stands as a testament to the harmonious fusion of technology and tradition, setting a precedent for the future of creative expression in jewelry design.

Chesco Díaz   Egor Gavrilenko

Learning

HOW TO RHINO

About HOW TO RHINO

Dusan and Lazar, the architects behind How to Rhino, an official Rhino Training Center, can guide you in mastering Rhino and Grasshopper for architecture. With free YouTube tutorials and structured programs, over 600 architects have embraced efficiency and creativity. Quickly translate ideas into 3D models, understand Grasshopper's logic, and craft intricate forms. Join the journey to elevate your architectural design skills.

Uncover an outstanding array of courses tailored to enhance your skills. Whether delving into the fundamentals or advancing to complex projects, these offerings provide a transformative journey for skill improvement.

Rhino for Architects Course

Tailored for students, this guide spans nine modules, covering Rhino and Grasshopper basics to advanced levels, including essential commands, SubD modeling, VisualARQ, Vray rendering, Animation with Bongo plugin, and a Case Study project.

Grasshopper Complete Course

This extensive course features 500+ native Grasshopper components, illustrated through 1000 examples or "mini" definitions. It culminates in 10 intricate projects synthesizing all the acquired knowledge.

Rhino Inside Revit Course

In three modules, this course explores Rhino Inside, covering detailed RiR tabs and components. It showcases projects transitioning from Rhino and Grasshopper to BIM in Revit and offers practical insights on file preparation for 3D printing.

For more information, **explore the complete Courses Curriculum by clicking HERE** or take the next step in your learning journey by reaching out and **SCHEDULING A CALL**.
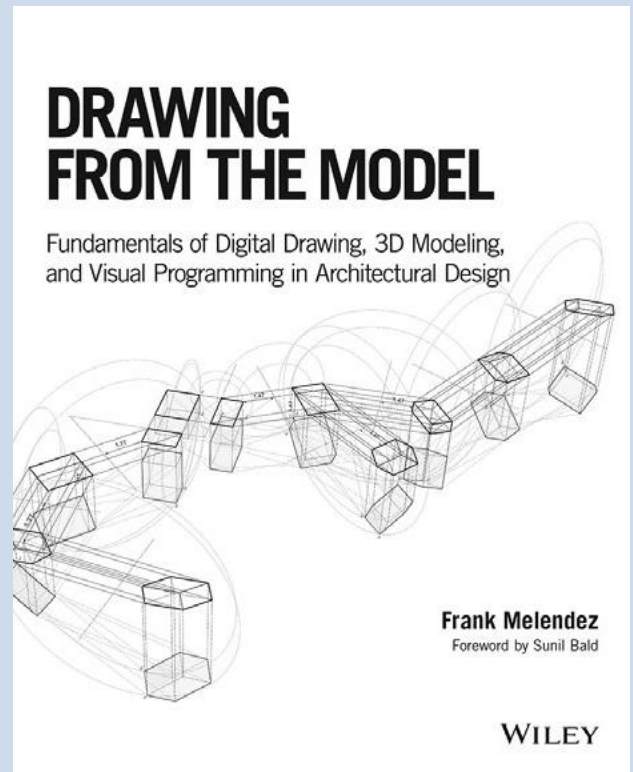
Drawing from the Model: *Fundamentals of Digital Drawing, 3D Modeling, and Visual Programming in Architectural Design* by Frank Melendez

This guide seamlessly bridges traditional and contemporary approaches to architectural representation. Melendez, an esteemed educator at The Bernard and Anne Spitzer School of Architecture, City College of New York, delves into the evolution of architectural drawing methods. He explores everything from historical analog techniques rooted in descriptive geometry to cutting-edge digital processes driven by computation and emerging technologies.

This book not only covers the fundamentals of digital tools, techniques, and workflows for architectural design drawings but also introduces visual programming concepts such as parametric modeling, algorithmic design, computational simulations, physical computing, and robotics. Melendez focuses on widely used software in higher education and industry, including Rhinoceros®, Grasshopper®, Adobe Illustrator® CC, and Arduino, offering tutorial-based instructions. The author's expertise, combined with practical exercises in the appendix, makes "Drawing from the Model" an invaluable resource for architecture students, educators, and professionals seeking proficiency in both hand drawing and digital design techniques.

Available in e-book and paperback!

get it now

Rhino 8

Rhino 8 brings new modeling tools like ShrinkWrap, a huge speed boost for Mac users, SubD Creases, PushPull workflows, better drafting tools, a more customizable User Interface, a faster Render engine, new Grasshopper data types, and much more.

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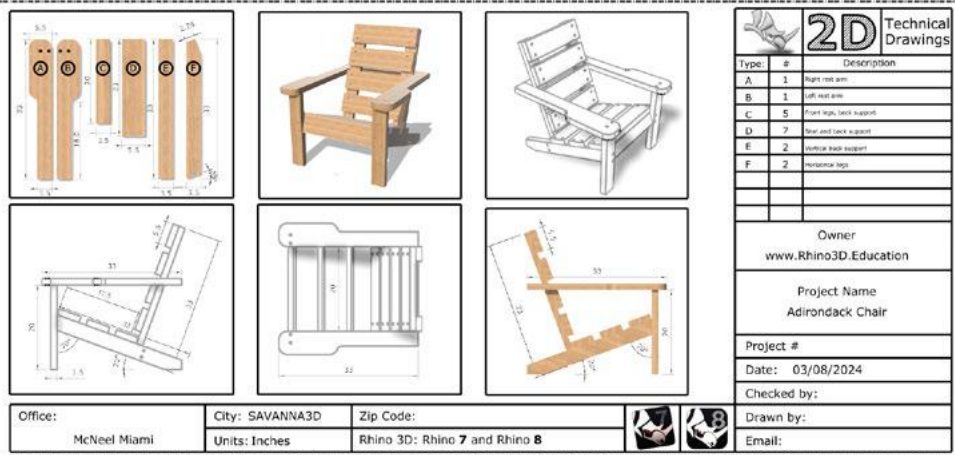Use for commercial work

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Limited Time offer

2D Technical Drafting with Rhino 7 & 8

Fee: $US 59.95

Drafting is called the "Language of Industry"

This course aims to help you express yourself clearly and effectively, leading to more opportunities. It is cost-effective and productive to keep your designs and technical drawings in one place. This is a fast-learning course is based on **Rhino 7 & 8** for Windows, but it also applies the same commands and principles if you use **Rhino 7 or 8** for Mac OS.

Immerse yourself in the course using your preferred language!
Available in English and Spanish,
with subtitles in Italian, French, Portuguese, German, and many others.

Here are some of the themes of this course:

- Different ways of Selecting Objects
- Working with precision
- Master the Gumball **(New in Rhino 8)**
- Understand how to use Layers **(New options in Rhino 8)**
- Tune Up Rhino
- Curves from Objects **(Cutting options in Rhino 8)**
- Dimensions and annotations
- Model Space and Page Layouts
- Making a Title Block with Atributes
- Print to scale your drawings
- Create and reuse your own templates

After purchase, this course will be available for two years!

▶ take this class now
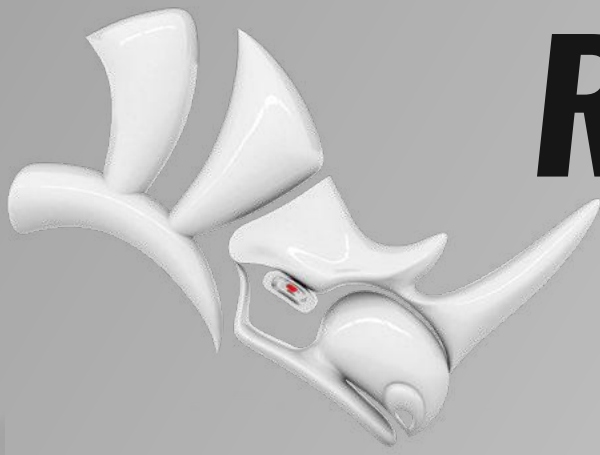
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with more than 30,000 students...

Select courses below, from beginners to specialized ones or **browse all our courses.**

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Rhino Intro & Intermediate

SubD in Rhino 7

Rhino & Revit World

Architecture & 2D Drafting

Grasshopper & GH-Python

Rendering & 3DM Blocks

Jewelry
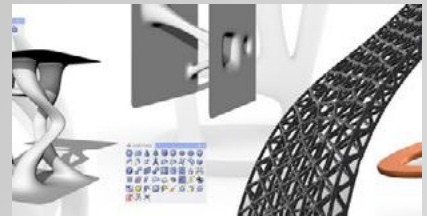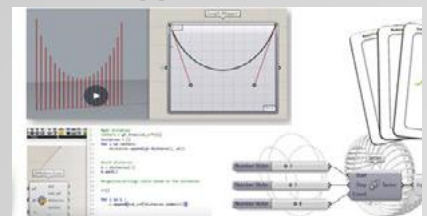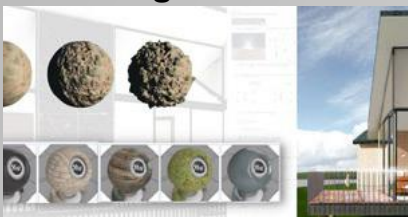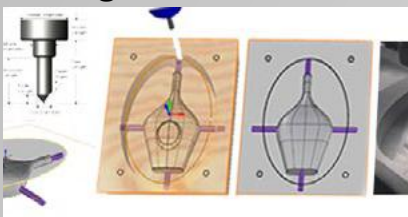
Footwear

Digital Fabrication

Marine Design

Podcasts & Webinars

www.Rhino3D.Education

Jewelry Design Challenge at *Tec de Monterrey*
- Digital Fabricators Project

Students from *Tecnológico de Monterrey Campus Guadalajara* recently triumphed over a challenging jewelry design project in their Jewelry Design and Manufacturing course. This course, part of the Design program's specialization in Jewelry Design, Manufacturing, and Commercialization, was led by Dr. Alejandra Alfaro Suzán and LDI Omar Avilez.

The project tasked students with creating a three-piece silver jewelry collection and showcased impressive results.

Students gained essential skills in Grasshopper through the **Computational Design with Grasshopper for Rhino 3D** course. They programmed three iterations, carefully considering parameters for wax printing, lost-wax casting, and detailed finishing.

Wedmori collection by Brian Israel García

This accomplishment highlights the students' creativity and interdisciplinary skills in contemporary design education and emphasizes the seamless integration of digital manufacturing and traditional techniques.

Perfectly uneven collection by Lourdes Rubio Grijalva

Challenges included adapting designs to specific manufacturing processes and strategically placing metal inlets to preserve the design. The project's success allowed students to design a Grasshopper definition for infinite iterations, promoting customization and on-demand fabrication.

Dune collection by Dulce Angélica Chávez

Jewelry Design, Manufacturing and Commercialization Specialty

Tips, Tricks &
resources about Grasshopper

Closed Curves

Curve → Closed
Periodic

Dispatch

List → List A
Dispatch pattern → List B

Planar Curves

Curve → Planar
Plane
Deviation

Degrees to Radians

Degrees → Radians

Hatch

Model Hatch

Hatch → Hatch
Boundary → Hatch Pattern
Hatch Pattern → Base Point
Base Point → Rotation
Rotation → Scale
Scale → Show Boundary
Show Boundary → Background
Background → Fill Style
Fill Style

Elevate Your Grasshopper Game:
Click now and unravel a collection of
game-changing tips & tricks!

Kinetica's Triumph at Expo Dubai

In the realm of architectural innovation, **Kinetica**, a Mexican firm, has left an indelible mark with its groundbreaking contributions to the Expo Dubai 2020 project. Commissioned to build 42 AV and sound pods to a 140-meter-diameter video mapping dome – the centerpiece of the Expo – Kinetica's team faced a multifaceted challenge that demanded unparalleled creativity, precision, and adaptability.
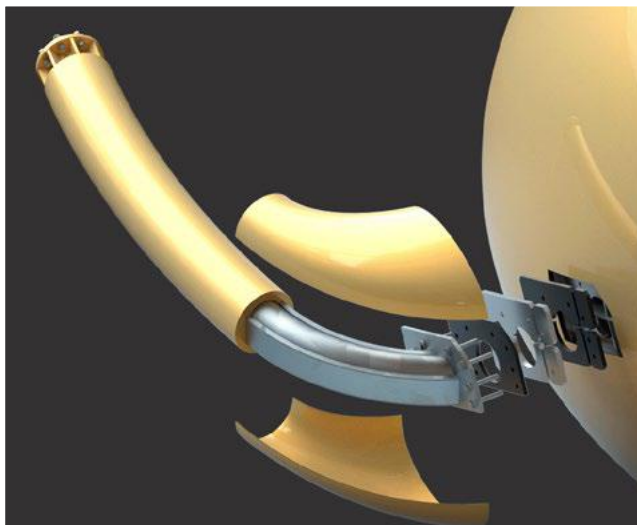
Building the Pods

For this colossal undertaking, Kinetica's team crafted 42 bespoke aluminum pods resembling airplane turbines that housed intricate technology, including high-tech laser projectors, MEP, and 10 tons of air conditioning. Each pod's aluminum structure, with a double curvature, showcased the firm's mastery in the hydroforming process, utilizing a custom-made machine to shape metal with high-pressure liquid.

In an exclusive interview, Leonardo Arenas, head of Kinetica's Computational Design department, emphasized the company's distinctive approach. Kinetica stands out by merging industrial design creativity with practical fabrication prowess, tackling projects with a multidisciplinary team comprising architects, engineers, and industrial designers.

Innovative Collaboration and International Integration

Highlighting the international collaboration, the 360-degree projection screen, the world's largest, was a collaborative effort

involving materials from East Europe, fabric from the US, and the fabrication of pods in Monterey, Mexico. This mixture, led by AS+GG (Adrian Smith + Gordon Gill Architecture), showcases Kinetica's ability to integrate components from diverse locations seamlessly.

Collaborating globally demands effective communication, a philosophy engrained in Kinetica's ethos. The company uses 3D models as a universal language, ensuring clarity and precision throughout the project's lifecycle. Kinetica's adaptability shines through in overcoming challenges, such as efficiently transporting pods via the world's largest cargo plane, the Antonov AN 124, and ensuring the integrity of the glassing system amid altitude-related pressure changes.

▶ **Click here** to explore Kinetica's innovative **hydroforming process** and witness high-pressure liquid shaping aluminum into the stunning double curvature for Expo Dubai's iconic pods.

Parametric Design, A Key Player in Success

Kinetica's utilization of parametric design, specifically Rhino and Grasshopper, played a pivotal role. These tools enabled the team to streamline complex processes, from optimizing pod orientation to simulating the hydroforming process. The integration of Grasshopper's Galapagos plugin facilitated the efficient design of the doors' movement systems.

## Client Satisfaction and Future Aspirations

The Expo Dubai 2020 project received widespread acclaim from clients, architects, and organizers. Kinetica's ability to transcend technical limits through creative solutions left an indelible mark on the global stage. The success of this venture has propelled Kinetica to set its sights on larger and more complex projects, armed with newfound knowledge in international cooperation, adaptability, and innovative project management.

Looking ahead, the experience gained from Expo Dubai 2020 positions Kinetica as a global player with a heightened ability to navigate diverse markets and uphold its commitment to pushing the boundaries of architectural fabrication. As a versatile and forward-thinking industry leader, Kinetica continues to innovate, ensuring its legacy as a trailblazer in the fusion of creativity and precision in architectural design and fabrication.

Upcoming Events
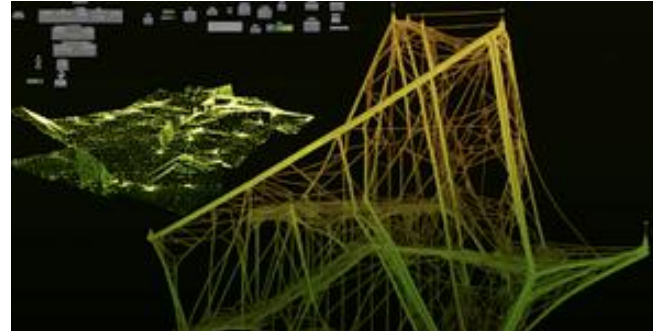## Hone Your Skills With Rhino
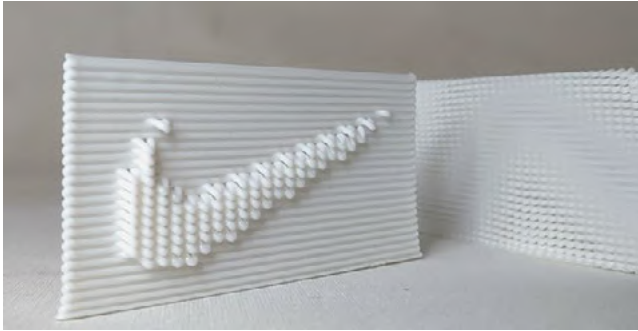
GRASSHOPPER FOR 3D PRINTING
HOSTED BY CONTROLMAD - FEB 17 & 18, 2024

Are you interested in combining the amazing power of Grasshopper with the precision of G-code? Taking this class can help you harness the power of your imagination and create amazing designs for 3D-printing.

WHERE: Online **TIME**: 3-8 PM CET
**COST**: €150 **LANGUAGE:** English

RHINO FOR STRUCTURAL ENGINEERING
HOSTED BY MCNEEL EUROPE - FEB 21-23, 2024

This online workshop can help you understand how best to use Rhino and Grasshopper to accomplish your structural engineering goals. You'll see how 3D modeling tools are used to calculate, optimize, or aesthetically evolve structures.

WHERE: Online **TIME**: 10A - 5P CET
COST: €395 **LANGUAGE:** English
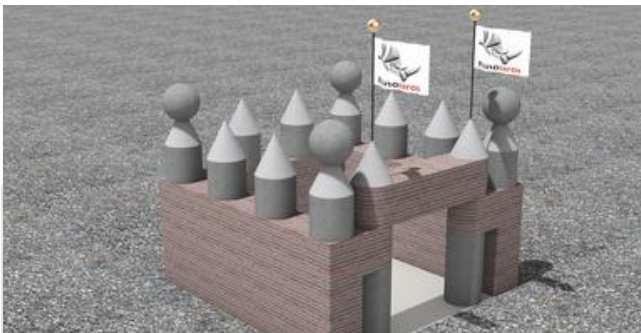
RHINO LEVEL 1 CERTIFIED TRAINING
HOSTED BY SIMPLY RHINO - MAR 4, 2024

This introductory class is perfectly suited to anyone new to Rhino, those who are a little rusty or anyone who would simply like to learn, or re-learn, Rhino the best and most efficient way. The class takes place over six sessions.

WHERE: Online **TIME**: 1:30 - 5:30 PM GMT
COST: £320 **LANGUAGE:** English

COLOSSAL CELLSCAPES WEBINAR
HOSTED BY DESIGNMORPHINE - MARCH 30, 2024

If you're looking to explore large scale environment construction in Rhino and Grasshopper, this one-day webinar can help you expand your creations beyond the capabilities of traditional modeling techniques.

WHERE: Online **TIME**: 3 - 8P UTC
COST: €35 **LANGUAGE:** English

Career Corner:
Job Opportunities with Rhino or Grasshopper

INTERIOR DESIGNER
POPULOUS

WHO: This global design firm leads the field in the creation and design of stadia, arenas, large-scale venues and live events.

WHAT: Seeking an interior designer with Rhino proficiency and at least five years of experience to work on numerous in-development projects with the New York City team.

📖 more info

MID-LEVEL LANDSCAPE ARCHITECT
SWA

WHO: An award-winning, international landscape architecture, planning, and urban design firm with offices all around the world.

WHAT: Seeking talented, design-oriented landscape architects to fulfill substantial roles in our Los Angeles office. Competitive salary depending on experience.

📖 more info

DESIGN DRAFTSMAN
ROWAN WOODWORK

WHO: A supportive, inclusive and collaborative millwork shop specializing in high end cabinetry packages. Based out of beautiful Kingston, NY with a Euro-style vacation policy.

WHAT: Rhino-fluent draftsperson with at least two-years experience working at an architectural firm of some kind. CNC programming knowledge a bonus.

📖 more info

ARCHITECT
PGAV DESIGNS

WHO: One of the largest architecture firms in the world, PGAV is a global leader in comprehensive tourism planning, visitor experience design, and attraction and lodging development.

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