

ContraFuerte: a Groundbreaking Symphony of Artistry & Computational Ingenuity

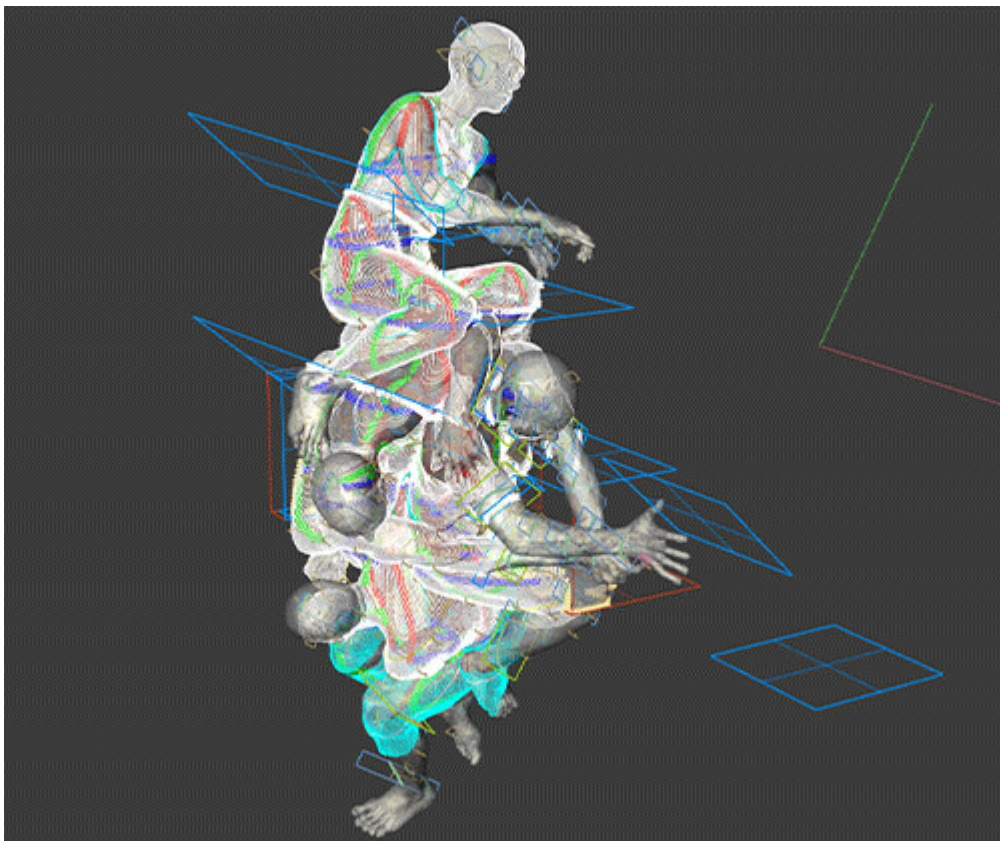
Nestled within the vibrant cityscape of Philadelphia lies an extraordinary testament to collaborative prowess and digital craftsmanship—[ContraFuerte](#). This bold outdoor installation, conceived by the visionary sculptor [Miguel Horn](#), represents a fusion of tradition and technological advancement. It is a symphony orchestrated through a profound collaboration with Chris Landau's powerhouse, [LANDAU](#).

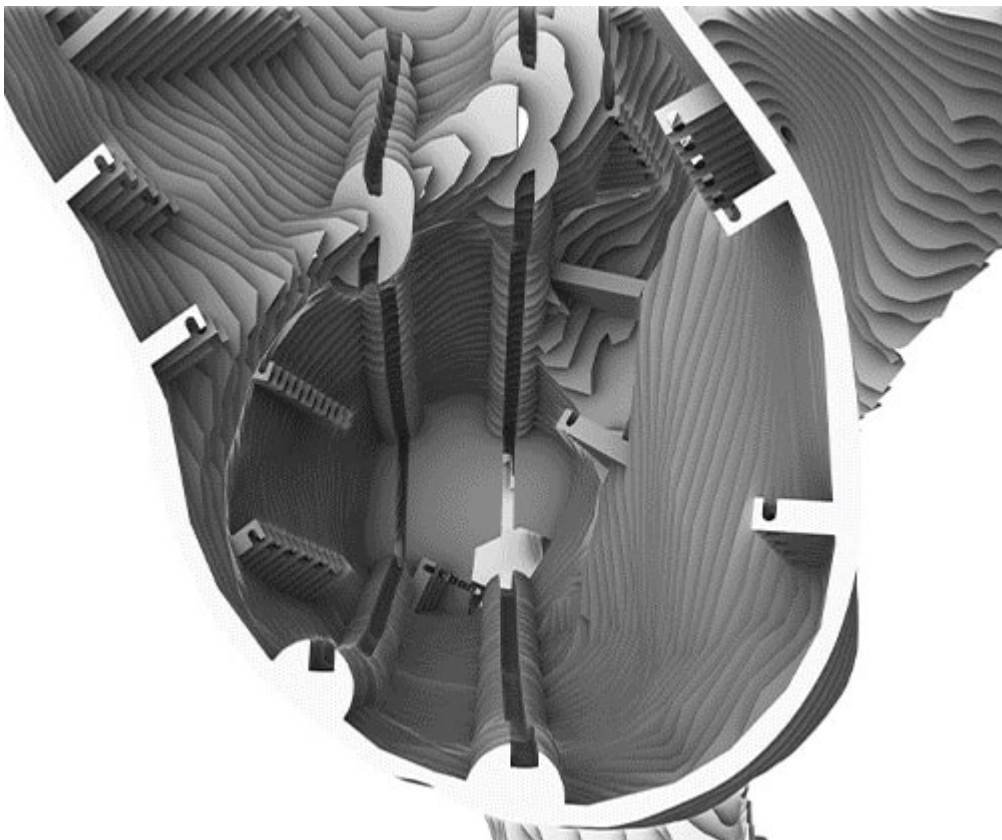
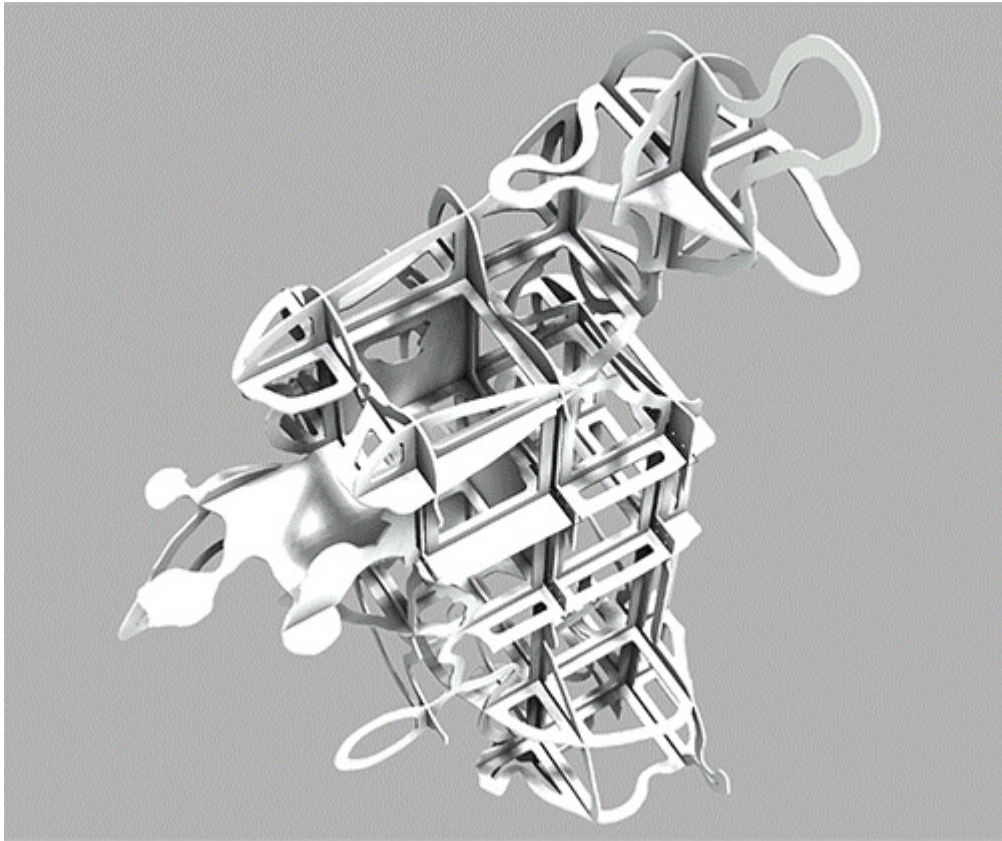


The celebrated unveiling of ContraFuerte in Philadelphia marked the realization of an extensive, meticulous process—a journey that explored the intersection of artistry and cutting-edge design

techniques. Miguel Horn's visionary creation, an aweinspiring ensemble of male and female figures defying gravity as they support a bridge, came to life through the intricate interplay of traditional sculpting methods and Landau's innovative digital expertise.

Landau's role in this artistic saga goes beyond mere collaboration; it's a narrative of transformative artisanship. His background in landscape architecture and design technology provided fertile ground for the marriage of art and computational design. The adaptation of digital tools like Rhino, Grasshopper, and Python became the cornerstone of this groundbreaking venture, enabling Horn to delve into digital sculpting at a scale previously unexplored in his artistic repertoire.

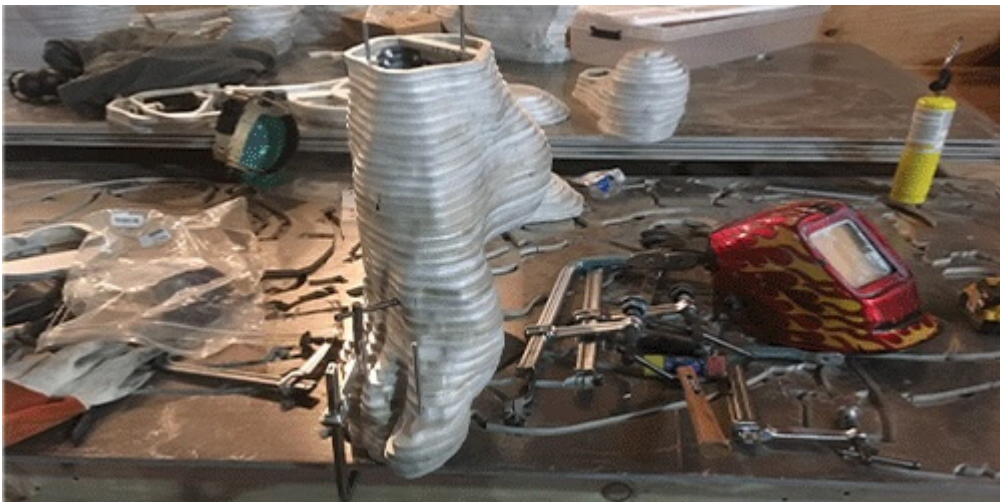


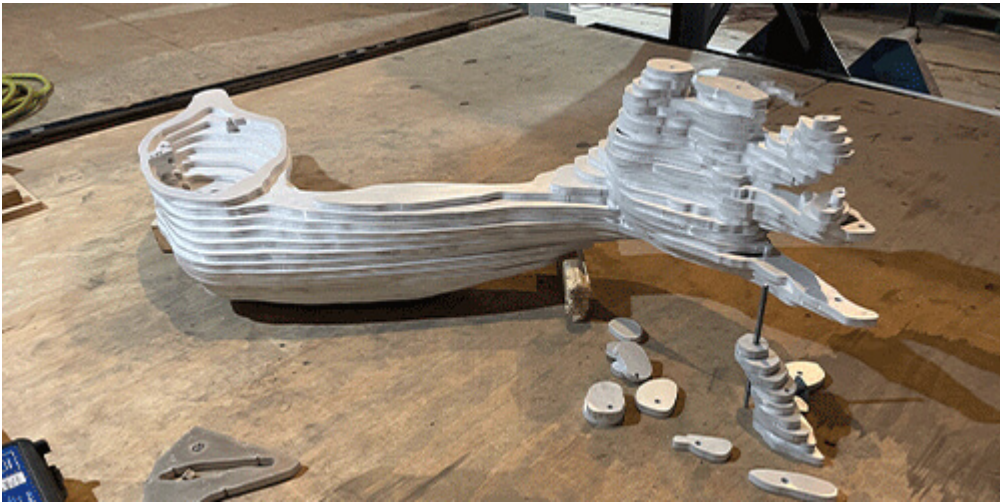
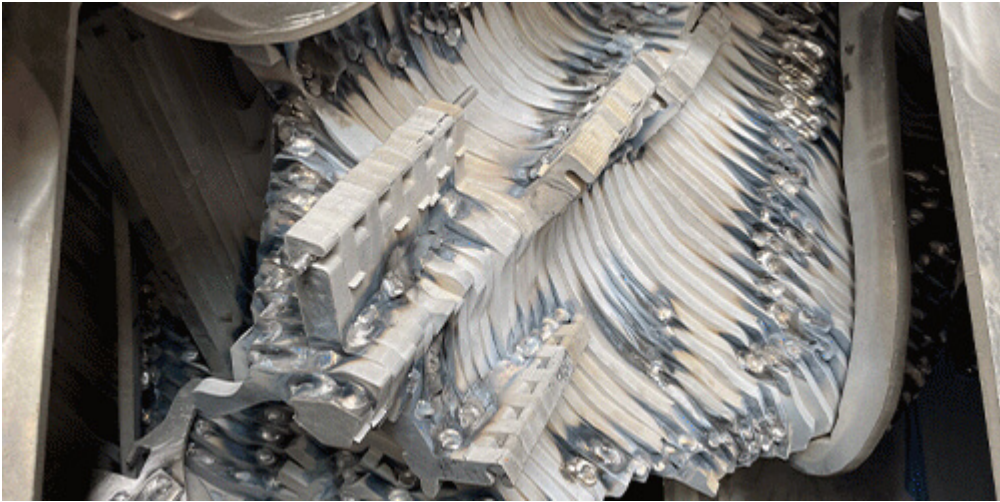


This pivotal partnership between Horn and Landau unfolded against a backdrop of immense technical intricacy. The intricate layering of the sculpture, meticulously composed of over 5,000 aluminum pieces, demanded a precision that surpassed traditional artistic methods. Landau's expertise in Grasshopper and custom scripted tools brought

forth a seamless integration of hundreds of layers, meticulously ensuring a flawless, cohesive assembly.

The ContraFuerte project isn't just a testament to collective action; it's a pinnacle of precision demanded—down to an eighth-inch overlap in hundreds of layers. This precision was made achievable through the strategic use of computational design. Landau's adeptness in computational algorithms not only ensured an accurate representation of Horn's vision but also optimized the cutting process for efficiency.





Beyond ContraFuerte, LANDAU Design +Technology is a pioneering force, reshaping the landscape of art and design through an array of services.

LANDAU specializes in computational design, offering a suite of services that includes innovative modeling techniques, dynamic models leveraging computational design, and simulations for landscapes, furnishings, prostheses, and much more. Their proficiency also encompasses topographic modeling, analysis, and animation, revealing hidden dimensions of finished meshes through sophisticated data visualization tools like Rhino, Grasshopper, ArcGIS, and QGIS.

The powerhouse excels in communication through powerful graphics, diagrams, renderings, and storytelling, amplifying their impact. Their rendering expertise allows them to craft uniquely styled visuals that precisely reflect the client's project while conveying a distinct narrative. Additionally, their prowess in animation and video production brings design stories to life, offering invaluable insights into their projects through sequential media.



Their commitment doesn't just lie in delivering exceptional projects but also in developing tools that revolutionize the field. The firm's pioneering work includes the development of the Land Kit plugin, which promises to streamline and enhance the efficiency of landscape design workflows. It marks another milestone in their mission to integrate technology into art and reshape our built environment.

The Land Kit plugin offers supercharged workflows to tackle design challenges at scale, making the process more efficient and fluid, propelling landscape design into a new era of innovation.