

## STATEMENT OF QUALIFICATIONS

At Demiurge we often describe ourselves as sculptural and architectural fabricators. However, we can also be described as a design and fabrication collaborative consisting of a passionate group of people with backgrounds in fine art, sculpture, architecture, fabrication, contracting, carpentry, and life sciences. Our diverse backgrounds, and variety of experiences bring a uniquely holistic and creative point of view to our projects. In the end, our projects are works of art, and we treat them with the level of detail and care that is appropriate.

Demiurge is always interested in projects that are creative, innovative, and driven by a desire to push beyond what is expected. These extraordinary projects are where we are able to utilize all of our wide array of skills and experience. We are uniquely qualified to execute projects of any complexity, and are well prepared for any level of detailed design development, digital fabrication, and meticulous fabrication and installation that these projects require.

Demiurge has produced hundreds of large-scale artworks and architectural details since our inception in 2001. For the majority of these projects, Demiurge plays an integral role in the design team and often serves as the primary contractor, managing all construction design, structural engineering, sub-contractors, vendors and material suppliers to produce high quality sculptural and architectural installations. By utilizing logistics planning, computational and parametric design, detailed communication and project management, Demiurge serves as a turn-key design, fabrication, and installation studio. Our design, fabrication, and installation processes are intimately integrated. We foster a studio culture focused on open and productive communication between the design and fabrication teams. Our fabricators work directly from 3D models to ensure a level of precision and detail unique to sculptural fabrication.



**Lifethings / Soo-in Yang**

*Idea Tree*

Engineering, Construction Design, Fabrication, Installation

Location: San Jose Convention Center - San, Jose, CA

Steel, Catalyzed Paint Coating, Stainless Steel Cable, Polycarbonate Plastic

# SCOPE OF SERVICES

## DESIGN DEVELOPMENT + R&D

- 3D Modeling
- Parametric Design
- Material Testing
- Prototype Design
- Fabrication Planning
- File Preparation for Material Processing
- Shop Drawings for Production
- Material / Color Selection + Coordination

Through this stage we are dedicated to proving the viability, both functionally and aesthetically, of all construction assemblies, materials, and methods. This often involves testing material properties to ensure their ability to perform as expected as well as the production of prototypes to test connection details and finishes. In addition to these services we will begin detailed logistical planning and coordination with the design team. This includes the creation of a preliminary fabrication and installation schedule.

Our wealth of experience fabricating and installing sculptural and architectural installations allows us to foresee possible problems that can occur at every stage of the process. This includes a thorough examination of 3D models and digital files, material processing techniques, vendor tolerances, fit up, packing, shipping, transport, and on site installation issues.

## FABRICATION SERVICES

- Prototype Fabrication
- CNC fabrication
- Component Preparation
- Structural Fabrication
- Surface Fabrication
- Hardware Connections
- Finishing

The fabrication phase includes material preparation, processing, and finishing. This process is different for every project but often includes processing material via CNC routing or laser cutting. All fabrication processes carefully adhere to stringent quality control standards.



Volkan Alkanoglu, *Distortion*  
Engineering, Construction Design, Fabrication, Installation  
Location: Cedar Rapids Convention Center - Cedar Rapids, IA  
Dimensions: 33' x 17' x 35'

# SCOPE OF SERVICES

## INSTALLATION SERVICES

Installation Plan  
Installation Sequencing + Scheduling  
Packing + Shipping + Transport  
Site Management + Maintenance

Demiurge packs, ships, and transports our client's pieces to their sites for installation. Following successful delivery we install the piece according to our pre-established installation plan. Final finishing occurs on site when necessary.

Our rigorous efforts in the phases leading up to installation ensure that our time on site is minimal and the installed piece is assembled precisely according to the construction documents.

## ENGINEERING SERVICES

Structural Design  
Structural Engineering

Demiurge can provide final stamped engineering documents.

Demiurge has a long standing relationship with engineering firms Arup and our local partners, KL&A, and Yetiwerks, which allow us to offer full structural engineering services when needed. Our engineering colleagues are accustomed to the high level of complexity and unique challenges that sculptural and artistic installations present.



Jim Hodges, *With Liberty and Justice for All (A Work in Progress)*  
R&D, Prototyping, Engineering, Construction Design, Fabrication, Installation  
Location: Aspen Art Museum - Aspen, CO  
Mirror Polished Stainless Steel, Dichroic Acrylic  
Dimensions: 96' x 7' x 12'

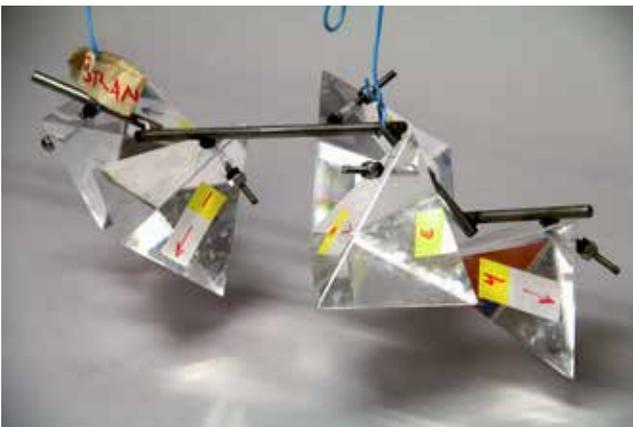
# SCOPE OF SERVICES : EXAMPLES

3D PRINTING + MAQUETTES



Gale Fulton Ross' *One Story* came to Demiurge as a hand-carved plaster model. The model was scanned and translated into a complex tessellated surface, 3D printed, structurally engineered, and prepared for fabrication.

LONGEVITY + DURABILITY TESTING



Custom acrylic prisms for artist team Haddad|Drugan's *Iridescent Cloud* were laboratory tested to ensure they would stand the test of time in extreme weather conditions.

THERMOFORMING



Demiurge has experience with a variety of composite materials and thermoforming as shown here working with artist Martha Russo in our in-house custom built kiln.

BENDING + SHAPING



Creating complex curvature is a standard in Demiurge's repertoire. We are accustomed to forming such surfaces with various methods and materials.

## PROJECT EXAMPLE : IDEA TREE



Project Name: *Idea Tree*  
Artist: Lifethings / Soo-in Yang  
Commissioning Agency: City of San Jose  
Location: San Jose McEnery Convention Center  
Owner: City of San Jose, CA  
Dimensions: 40' x 40' x 18'  
Architect: Soo-in Yang  
Engineering: Arup  
Scope of Work: Engineering, Construction  
Design, Fabrication, Installation  
Date of Completion: September 2013

*Idea Tree* by architect and artist Soo-in Yang, is the result of a collaboration between Arup, Demiurge, and the artist. The piece was commissioned by the City of San Jose Public Art Program as part of the renovations to the City of San Jose's McEnery Convention Center. The central element of the sculpture is a 40' diameter canopy, supported by three groups of columns which serves as a transitional and interactive space between the street and the convention center entrance. The piece has integrated power, data, and lighting elements that record, process and transmit peoples voices using custom algorithms designed by the artist. The canopy is composed of six interlocking steel rings with a stainless steel cable system which describes a hyper-toroidal surface. Attached to the cable are translucent polycarbonate leaves silk screen printed in three colors with a Voronoi graphic pattern. Early in the design process, Demiurge identified the shipping and logistical constraints as being a primary driver of the fabrication design for the piece.



# PROJECT EXAMPLE : QUILL MOTION



Project Names: *Quill Motion*

Artist: Volkan Alkanoglu

Commissioning Agency: Utah Public Art

Division for the Salt Lake Community College

Location: Taylorsville, UT

Dimensions: 13' x 41' x 2'

Engineering: KL&A

Scope of Work: Engineering, Construction

Design, Fabrication, Installation

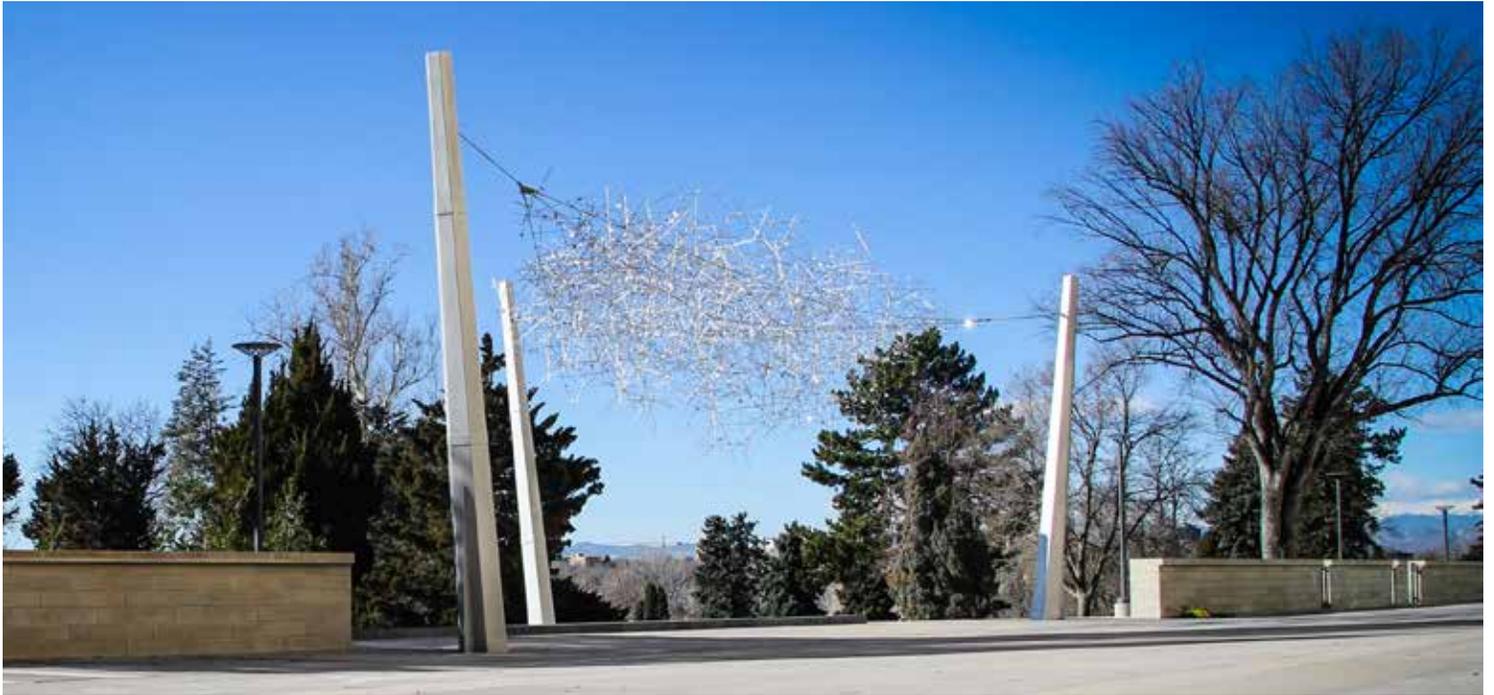
Completion: October 2013

Demiurge partnered with artist Volkan Alkanoglu, to create *Quill Motion*. The project was commissioned by the Utah Public Art Division for the Salt Lake City Community College in Taylorsville, Utah. *Quill Motion* is 13 feet across and 41 feet high; the piece spans three floors of the SLCC Instructional Administration Building, interacting with and accentuating the structure and composition of the building.

Constructed out of 300 folded and coated aluminum panels the aggregation of these multiple components and resultant dynamic motion reflects the inherent qualities and ideologies of the Humanistic Department at the college. It represents the ambiguous effort to implement and flourish culture through an evolution of media and its vessels of communication.



## PROJECT EXAMPLE : IRIDESCENT CLOUD



*Iridescent Cloud* by artist team Haddad | Drugan is located at the Denver Museum of Nature and Science in Denver, Colorado. The piece consists of 700 custom-made acrylic prisms affixed to stainless steel rods which are suspended above the ground by a series of delicate high-tensile cables strung between three massive hexagonal columns. The prisms create a shifting, shimmering projections on the surface of the surrounding plaza and grass that are constantly changing with the light and seasons.

Project Name: *Iridescent Cloud*

Artists: Haddad | Drugan

Commissioning Agency:

City and County of Denver

Location: Denver Museum of Nature and Science

Dimensions: 80' x 35' x 30'

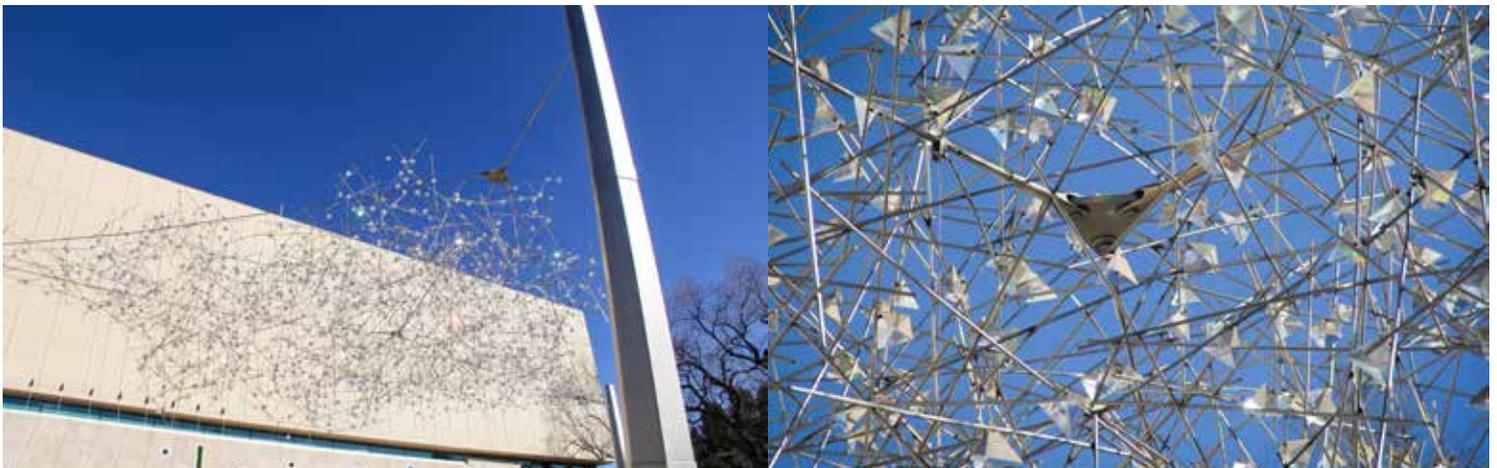
Engineering: KL&A

Scope of Work: R&D, Engineering, Construction

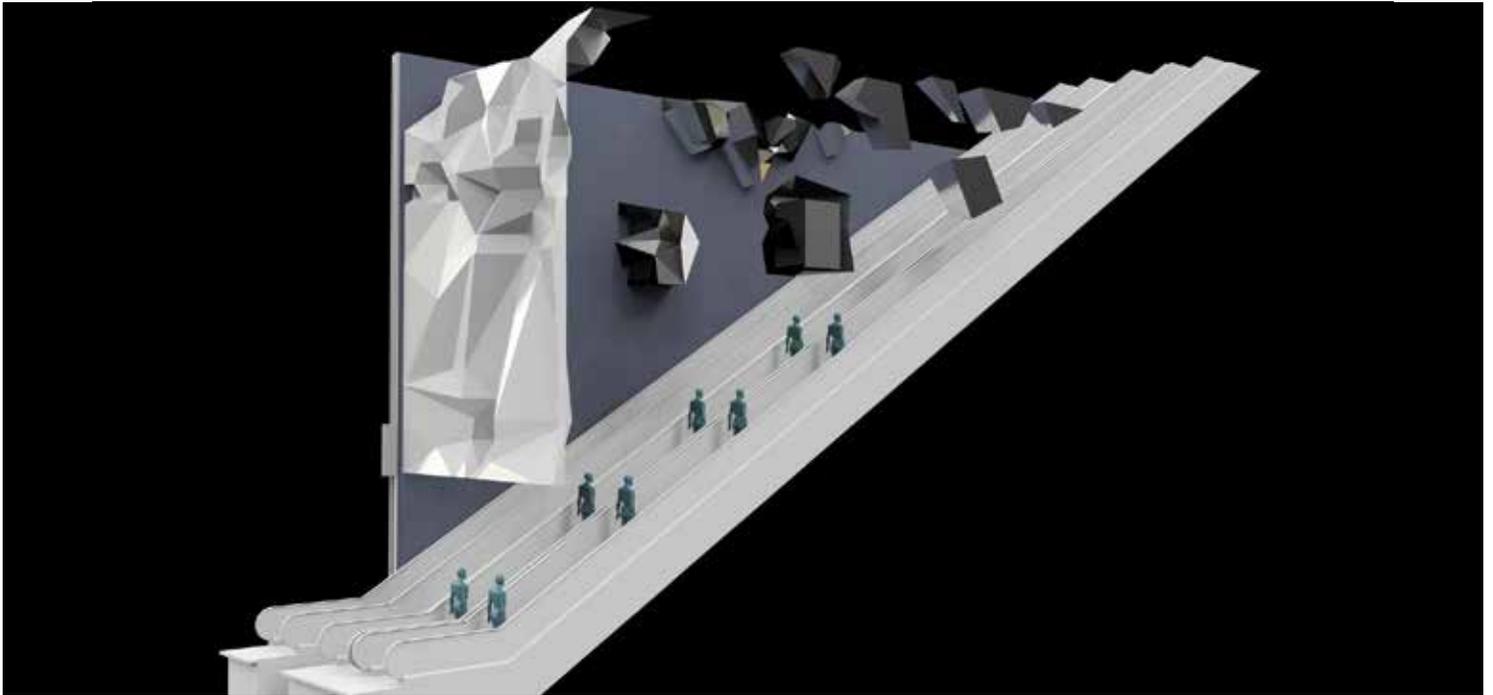
Design, Fabrication, Installation

Completion: February 2014

Throughout the design phase, Demiurge worked to create solutions that would satisfy the structural requirements, the conceptual and aesthetic vision of the artists, and the safety, time, and budgetary constraints at the museum. This included laboratory testing the acrylic prisms, a custom designed and fabricated high-tensile cable system, accessibility around the artwork, and a unique production and installation process.



## PROJECT EXAMPLE : DENVER INTERNATIONAL AIRPORT



Demiurge is working with Paris-based artist Yann Kersalé to build and install *Water in all of its States*. Located at the Denver International Airport, this interactive light sculpture is located within a five story escalator shaft. During the 90-second journey between levels viewers will see slow-moving video images projected onto a faceted rock-like wall structure fabricated from 1/8" aluminum.

Project Name: Kersalé / DIA

Artist: Yann Kersalé

Commissioning Agency: South Terminal  
Redevelopment Commission - Denver  
International Airport

Location: Denver International Airport

Dimensions: 24' x 35' x 75'

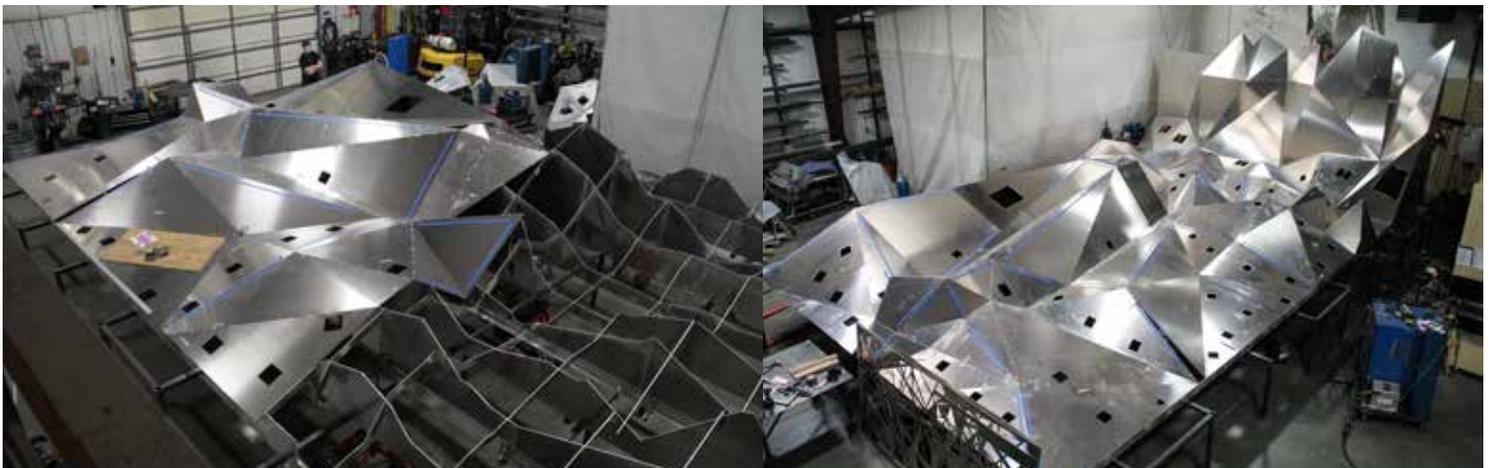
Architect: Gensler

Engineering: KL&A, Denver

Scope of Work: Design Development,  
Construction Administration, Engineering,  
Fabrication and Installation

Completion: October 2015

Demiurge joined the artist's team early in the schematic design process. Our contributions included the use of parametric modelling to trace the behavior of light rays off of the many mirrored surfaces as well as to sculpt the wall to ensure that its angularity discouraged pigeons from nesting on it. From the completion of a final form Demiurge completed all of the design development including structural design, connection details, shop drawings, fabrication design, and a seven phase scaffold and installation plan. Throughout this design process and into our current fabrication efforts we have managed the coordination of a multitude of involved entities including DIA, the public art committee, contractors, subcontractors, the PMT, the engineering team, three architecture firms, the safety superintendent, and the artists' studio.



# PROJECT EXAMPLE : SWIRL



Project Name: *Swirl*

Artist: Jim Campbell / White Light Studio

Commissioning Agency: Greater Des Moines Public Art Foundation

Location: Des Moines Performing Arts Center

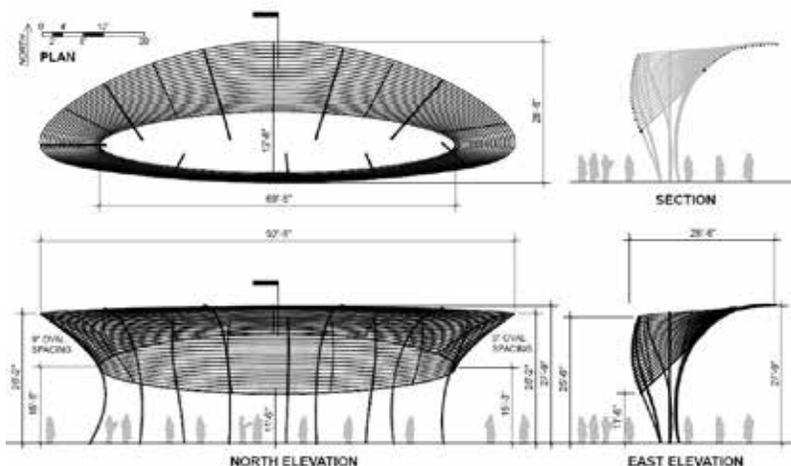
Dimensions: 93' x 28' x 29'

Engineering: Arup

Scope of Work: Design Development, Construction Administration, Fabrication and Installation

Completion: November 2015

Demiurge and San Francisco based artist Jim Campbell of White Light Studio, for the Greater Des Moines Public Art Foundation. *Eclipse* will be located at Cowles Commons, spanning nearly a hundred feet in length and thirty feet high. The overall structure is comprised of a series of stainless steel and polycarbonate elliptical rings, laced with precisely placed and programmed LEDs, suspended up to 30' in the air by a series of nine parabolically curved high strength stainless steel columns. Demiurge's involvement with this project began toward the end of schematic design, when we took a conceptual 3D model from the artist's studio and began a very complex design development process requiring the use of numerous parametric scripts and advance 3D modelling techniques. These techniques have been aimed at optimizing the completely non-orthogonal and parabolically curved forms into optimized single radii arc segments. Demiurge has been working diligently through the challenges of this irregular geometry which will be completed by the end of October 2015.



# KEY PERSONNEL : DEMIURGE



JOE RICÉ  
Firm Principal

JASON BELOW  
Lead Fabricator

WYNN BUZZELL  
Lead Designer

ABBY BENNETT  
Project Management



## EDUCATION

University of Denver

**Master of Fine Art, Sculpture, 1999**

University of Louisiana

**Industrial Design, 1997**

## PROFESSIONAL QUALIFICATIONS

Demiurge LLC

Principal Owner, CEO, since 2000

City of Denver, Department of Cultural Affairs

Public Art Master Plan Committee, 2006

Public Art Subcommittee, 2001-2014

## PUBLIC ART

Regional Transit Center, Denver

Commission Finalist, *Internodal*, 2015

Republic Plaza, Denver

Completed Commission, *Untitled & The Doom*, 2013

West Colfax Business Improvement District, Denver

Completed Commission, *Typha*, 2012

Department of Cultural Affairs, Denver

Completed Commission, *Trade Deficit*, 2009

## CERTIFICATIONS

American Red Cross

First Aid, CPR + AED

Aerial Lift Operation + Safety

Forklift Operation + Safety

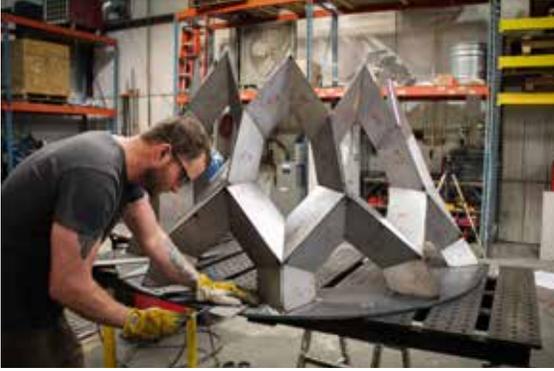
Rigging

Joe Riché currently lives and operates Demiurge LLC in Denver, CO. Riché's work has been exhibited within several solo, museum and public art venues throughout his career. In addition, since 2003, he has been a member of the City of Denver's Department of Cultural Affairs, Public Art Committee.

As the owner of Demiurge LLC, Joe's prime focus is to facilitate the creation of sculpture through the fabrication and installation of large scale public art projects for artists around the country. At Demiurge, we strive to foster positive and successful working relations between all contributors to the project, including clients, end users, project managers, engineers, designers, architects, sub-contractors, material suppliers and processors. The Demiurge shop is fully equipped with modern fabrication tooling and is capable of managing projects of all scales.

Founded Demiurge in 2000

# KEY PERSONNEL : DEMIURGE



JOE RICÉ  
Firm Principal

JASON BELOW  
Lead Fabricator

WYNN BUZZELL  
Lead Designer

ABBY BENNETT  
Project Management



## EDUCATION

University of South Florida

**Bachelor of Fine Art, 2004**

## PROFESSIONAL EXPERIENCE

TIG and MIG welding of Ferrous and Non-Ferrous metals from fine sheet metal to full structural welding, Hydraulic Shearing + Braking of sheet-metal, High-Tolerance Machining, CNC and Manual Lathe + Mill, Mold Making + Casting a variety of materials, Heavy Equipment Operation, Forging Metal, Proficiency with 3D Modeling Software

## CERTIFICATIONS

AWS - D1.1 - FCAW 1G

AWS - D1.6 - GMAW - 6G

Occupational Safety and Health Administration (OSHA)

30 Hour Construction Safety & Health

American Red Cross

First Aid, CPR + AED

Aerial Lift Operation + Safety

Forklift Operation + Safety

Rigging

As the Lead Fabricator at Demiurge, Jason's primary focus is to oversee production and maintain the highest level of quality and craftsmanship possible, and to implement fabrication detailing, strategies, methodology, and processes in pursuit of the creation of large scale art and architectural installations. Jason also leads all material exploration, testing, and R&D for ferrous and non-ferrous metals.

Jason's education, talent, and experience as an artist gives him unique perspective as a fabricator. He has an attention to detail and drive for perfection that is rare for someone with his high level of fabrication skill.

Jason excels at problem solving. Drawing on his wealth of experience fabricating and working on site, Jason is able to foresee possible issues at every stage of a project's development, fabrication, and installation. This foresight regularly allows our team to design new methods and techniques aimed at ensuring our projects successes.

Joined Demiurge in 2010

## KEY PERSONNEL : DEMIURGE



JOE RICÉ  
Firm Principal

JASON BELOW  
Lead Fabricator

WYNN BUZZELL  
Lead Designer



ABBY BENNETT  
Project Management



### EDUCATION

University of North Carolina at Charlotte

**Master of Architecture, 2012**

University of North Carolina at Wilmington

**Bachelor of Arts in Biology, cum laude, 2000**

### PUBLICATIONS

Association of Collegiate Schools of Architecture (ACSA) conference proceedings paper, 2012. "Evaluating Progressivism: A Critique of Biomimetic Architecture"

### PREVIOUS EXPERIENCE

Design/Build: The Werk Studio, LLC

Principal Owner, August 2013 - September 2014

Little Diversified Architectural Consulting

Intern Architect, May 2012 - August 2013

University of North Carolina at Charlotte's

School of Architecture, Digital Design Center

Research Assistant, June 2010 - May 2012

University of North Carolina at Charlotte

Fabrication Assistant, June 2010 - May 2011

### COMPUTER SKILLS

Proficiency with Windows and Mac OS, REVIT, AutoCAD, Microsoft Office Suite, Adobe InDesign, Photoshop, Illustrator, Rhinoceros, Grasshopper, Flamingo, 3D StudioMax, Gehry Tech's Digital Project, Google Sketchup, Processing, EcoTect, Vasari, VectorWorks, Quickbooks, etc.

As our Lead Designer, Wynn's focus is on design, client relations, and communication as well as translating client ideas into a buildable reality with the assistance of our Lead Fabricator and engineers. Wynn maintains our digital fabrication resources, investigates new fabrication technologies, emerging design trends, non-traditional materials, and the application of parametric design to sculpture production.

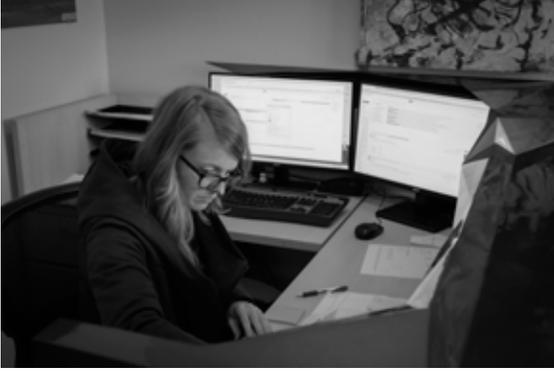
Wynn is a diligent and meticulous designer who thrives on the challenges offered by our client's projects. He thinks outside the box and is always eager to solve problems in a non-traditional way. His creative and computationally driven outlook on design make him uniquely suited for work with sculptural and architectural fabrication.

Wynn's experience working on large scale architecture projects coupled with his knowledge of digital design and fabrication technology make him a valuable addition to our team.

His previous work and studies focused on the application of biomimetic principles in architecture as well as material strategies in digital fabrication.

Joined Demiurge 2014

## KEY PERSONNEL : DEMIURGE



JOE RICÉ  
Firm Principal

JASON BELOW  
Lead Fabricator

WYNN BUZZELL  
Lead Designer



ABBY BENNETT  
Project Management

### EDUCATION

University of Colorado, Boulder

**Master of Fine Art, Sculpture, 2012**

The University of Texas at Tyler

**Bachelor of Fine Art, Studio Art, 2010**

### PREVIOUS EXPERIENCE

University of Colorado, Boulder

Adjunct Instructor, 2013

Graduate Instructor, Sculpture, 2011-2012

Graduate Assistant, Wood Shop, 2010-2013

University Memorial Center, Art Gallery Manager

### CERTIFICATIONS

American Red Cross

First Aid, CPR + AED

Aerial Lift Operation + Safety

Forklift Operation + Safety

Rigging

As the Project Manager and Studio Administrator at Demiurge, Abby's focus is working with both vendors and clients to coordinate processes, material deliveries and logistics from early design phases through fabrication and installation.

Abby also oversees a range of administrative and marketing duties both in the studio and office. She is a highly effective and organized project manager, with a keen attention to detail and uncompromising drive for excellence.

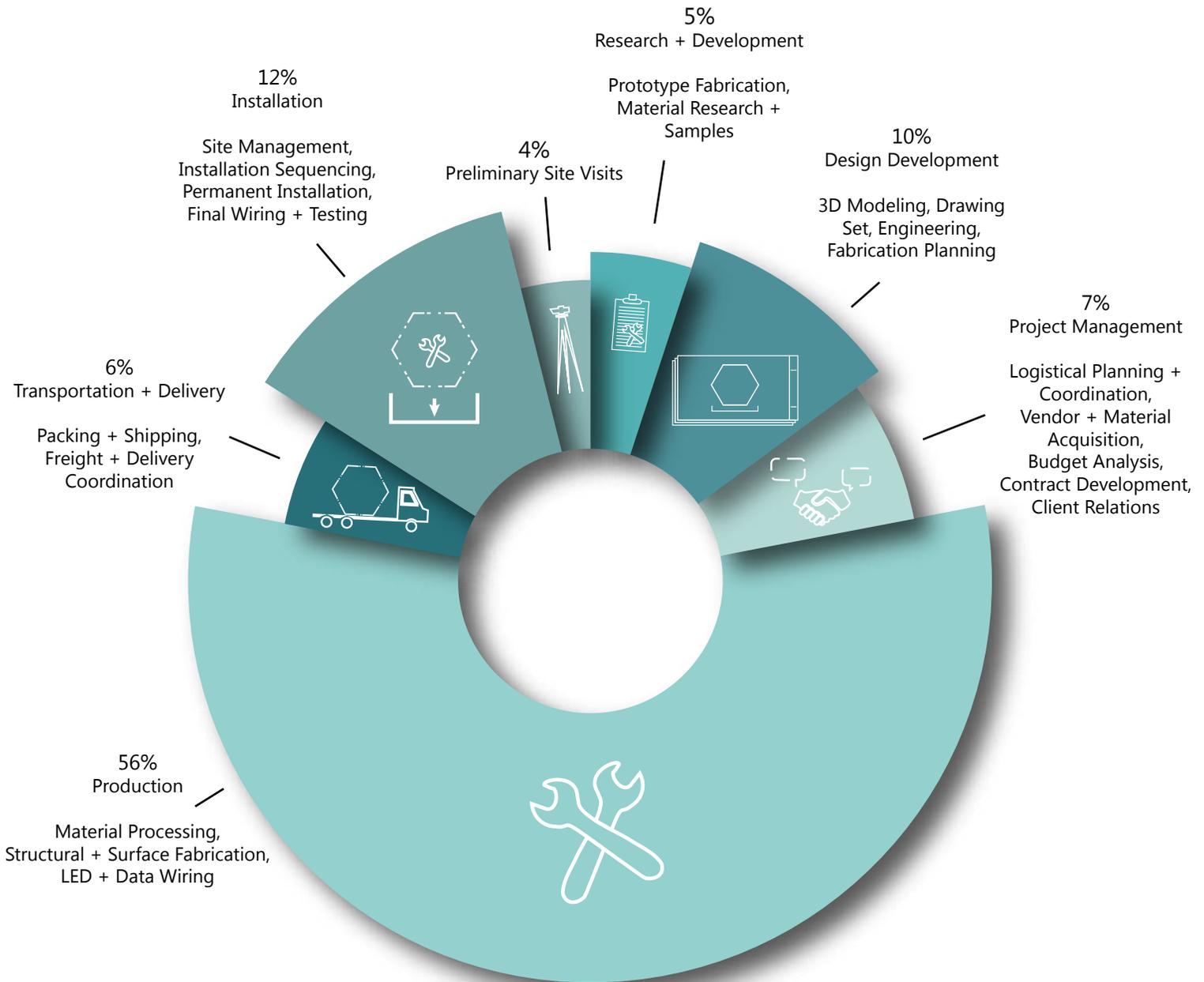
Abby has an in depth, experience driven familiarity with the materials and processes required to execute our clients' projects. This knowledge of fabrication techniques as well as logistical requirements make her uniquely qualified to oversee and effectively manage sculptural and architectural installations of any scale.

Joined Demiurge in 2013

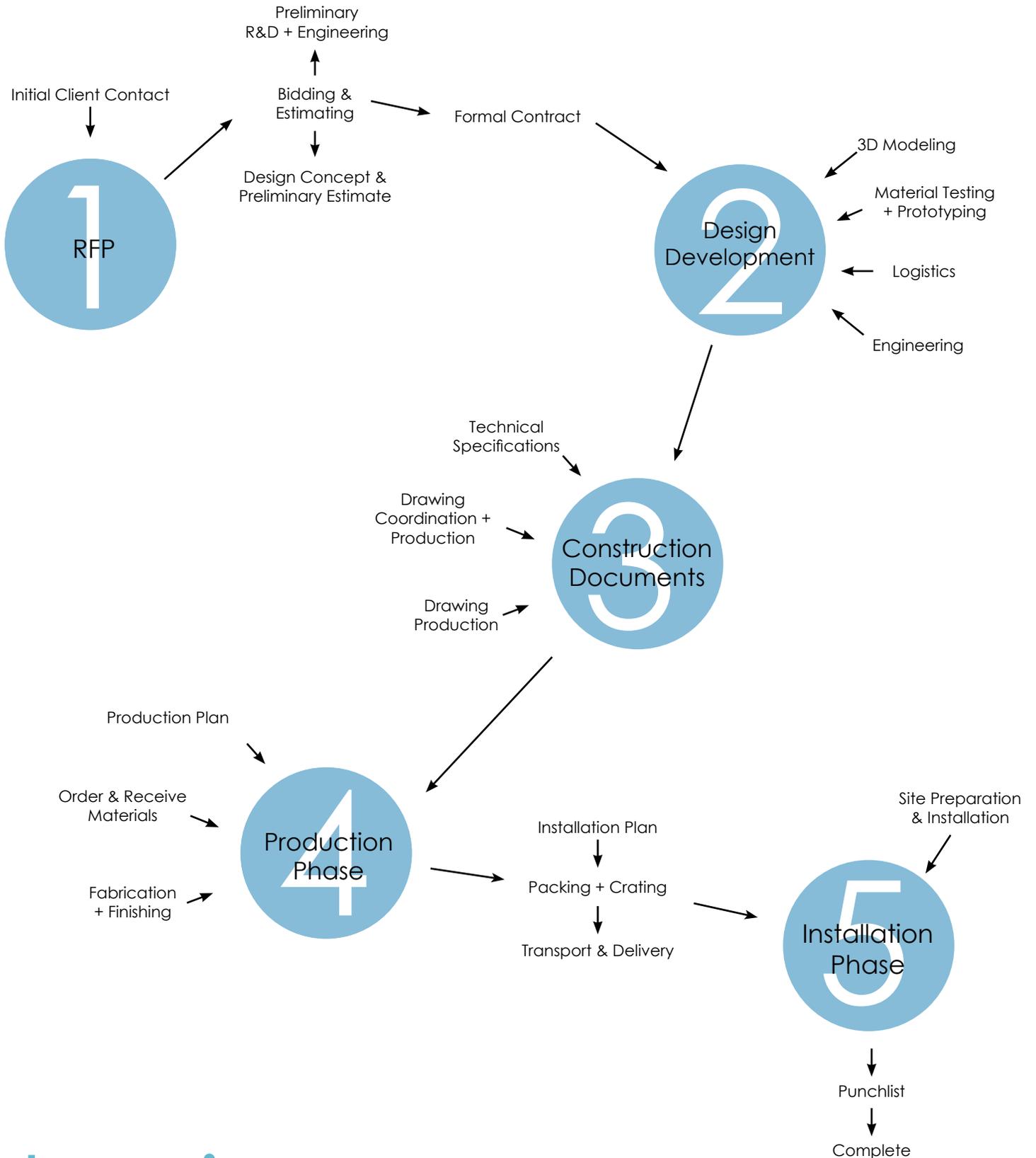
# ESTIMATES + BUDGET

This budget estimate is based on the what is currently known of the present design and material specifications. Final contract budget subject to change upon completion of Structural Engineering, Production Design and final material specifications.

The primary goal of Demiurge is to produce the highest quality work of art for the available budget. In many cases, we have delivered successful projects to our clients by working backwards from a budget that the client is comfortable with in order to realistically compose the scale and material palette of the project.



# SCHEDULE + PROJECT FLOW



# REFERENCES

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## **Kendall Peterson**

Manager, STRP Public Art Program  
(303) 214-5689  
kendall.peterson@flydenver.com

Demiurge has worked with the City of Denver on various large scale public art projects from 2004 to present.

## **Cortney Stell**

Executive Director + Chief Curator  
Black Cube - Denver, CO  
(720) 472-4094  
cstell@blackcubeart.org

Fabricated Black Cube, a modified shipping container turned nomadic contemporary art museum.

## **Will Ryman**

Artist - Manhattan, NY  
(917) 771-8689 + (646) 602-1048  
will@wrstudioinc.com

Continually fabricating and installing sculptures in Manhattan, NY - Washington DC - Miami, FL - Verbier, Switzerland - London, England.

## **Jim Hodges**

Artist - New York, NY  
(212) 532-3199 (Carlos Marques da Cruz, PM)  
carlos@jimhodges.com

Fabricated and installed *With Liberty and Justice for All*, a large-scale, exterior gallery work. Location varies.

## **Andrea Bowes**

Public Art Officer  
Edmonton Arts Council  
(780) 424-2787 x230  
abowes@edmontonarts.ca

Demiurge LLC worked with Andrea on *Willow* at Borden Park in Edmonton, Alberta Canada.

## **Gregory R. Kingsley**

P.E., Ph.D, C.C.E., President and CEO - KL&A Structural Engineers  
(303) 384-9910  
gkingsley@klaa.com

Demiurge LLC and KL&A continually work on large scale public art projects across the U.S. from 2008 to present.

## **White Light Inc.**

### **Studio of Jim Campbell**

Artist - San Francisco, CA  
(415) 533-3692 (Russell Zeidner, PM)  
rzeitner@jimcampbell.tv

Fabricated and installed *Swirl* located at the Des Moines Performing Arts Center in Des Moines, Iowa.

## **Lifethings / Soo-in Yang**

Artist - Seoul, Korea  
+82 (0) 1040347479  
s@lifethings.in

Fabricated and installed *Idea Tree* at the McEnery Convention Center in San Jose, CA.

## **Jen Lewin Studio**

Artist - Boulder, CO  
(970) 948-4046 (Jamie Wirkler, PM)  
jen@jenlewinstudio.com

Fabricated and installed *The Magical Harp* at The Magical Playground, Palo Alto, CA and *The Sidewalk Harp* in Minneapolis, MN.

## **Volkan Alkanoglu**

Artist / Architect - Atlanta, GA  
(857) 654-4126  
volkan@alkanoglu.com

Fabricated and installed *Distortion* at the U.S. Cellular Center in Cedar Rapids, IA and Quill Motion at the Salt Lake Community College in Taylorsville, UT.

"As a structural engineer, I have worked closely with Joe on many projects, both his own sculptures and those of others, on small and large scales. Joe's work as a sculptor is inspiring to me, its ability to simultaneously inspire awe, humor, and wonder, and in its accessibility on many levels. But I may be even more inspired by Joe's understanding of the processes of creating art, designing an object, and constructing it are all one thing. His ability to *collaborate freely and effectively*, without ego, to achieve the best possible result is a key part of that process, and it is certainly rewarding for those of us lucky enough to work with him. Joe is a true 21st century artist and craftsman."

- **Gregory R. Kingsley, Ph.D, P.E., President and CEO, KL&A Structural Engineers & Builders**