ROOTS OF RESILENCE

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FORM FOUND DESIGN

DAVON JOHNSON DESIGNS

ROOTS OF RESILENCE

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LETTER OF INTEREST

The team of Form Found Design and Devon Johnson Designs proposes to design the sculpture at Bruce's Beach memorializing the history of the site and celebrating the strength and resilience of the individuals in the community who were involved.

Inspired by an Ernie Barnes painting of dancers, the gestures of dancers' hands movement are abstracted to evoke a message of strength, connectedness, resilience and joy. "Roots of Resilience" stands as a symbol of hope, healing, and unity, encapsulating the spirit of Bruce's Beach and its unwavering commitment to progress and community.

We are a closely-knit team with strong ties to the Westside beach community and personal connections to the issues at the heart of Bruce's Beach. Having worked as Architects we are particularly experienced in collaborating with multiple City departments in multiple jurisdictions. While every project has a unique group of stakeholders and individuals working to realize a goal, we have confidence in our ability to successfully bring a complex project to fruition that will benefit all.

Individually and collectively, we have designed and often fabricated multiple installations of similar scope and complexity, often with pressing deadlines and restrictive budgets. A partial portfolio of these works follows in this document. We take pride in always seeing our projects through to a successful completion, even if they are in other countries. As locals, we look forward to similarly seeing this project to its conclusion and enjoying it with our families when we go to the beach.

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RENDERINGS AND PROJECT NARRATIVE

- Monumental with a visual impact from afar and
- Straight lines and hard edges speak of resilience and unyielding strength.
- Cor-ten steel to withstand the ravages of time and the marine environment.
- Etchings in the steel sculpture narrate the history, emphasizing Diversity, Equity and Inclusion
- Engages the undeveloped portion of Bruce's Beach Park between Bayview and Manhattan Beach Blvd. and does not obstruct any views of the water

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RENDERINGS AND PROJECT NARRATIVE

"Roots of Resilience" is a captivating art sculpture that embodies the strength and perseverance of the Bruce's Beach community. This installation, consisting of two abstract trees, symbolizes the indomitable spirit and the deep-rooted history of this neighborhood.

The sculpture stands tall, reaching for the sky with branches outstretched like rejoicing hands, as if yearning to touch the heavens. The hands are intricately sculpted of planes of cor-ten steel, etched with intricate network of veins and lines as text that represents the journey of the community through time. Each hand is unique, reflecting the diversity and individual stories of the people who have contributed to the history and legacy of Bruce's Beach.

The trunks of the trees are robust and sturdy, symbolizing the foundation and resilience of the community. Their intertwining forms signify the interconnectedness and unity that have sustained the neighborhood throughout its history. The roots of the trees, depicted with intricate details and patterns, dig deep into the ground, signifying the deep sense of belonging and connection to the land.

The sculpture serves as a tribute to the past, present, and future of Bruce's Beach. It honors the struggles, achievements, and aspirations of the community, reminding all who see it of the power of resilience and the ability to overcome adversity.

"Roots of Resilience" stands as a symbol of hope, healing, and unity, encapsulating the spirit of Bruce's Beach and its unwavering commitment to progress and community.

Text Description etched and cut into steel sculpture:

- History of Bruce's Beach from 1912 to 2023
- Details of the families involved and their
- Stories of their entrepreneurship, hope and resilience

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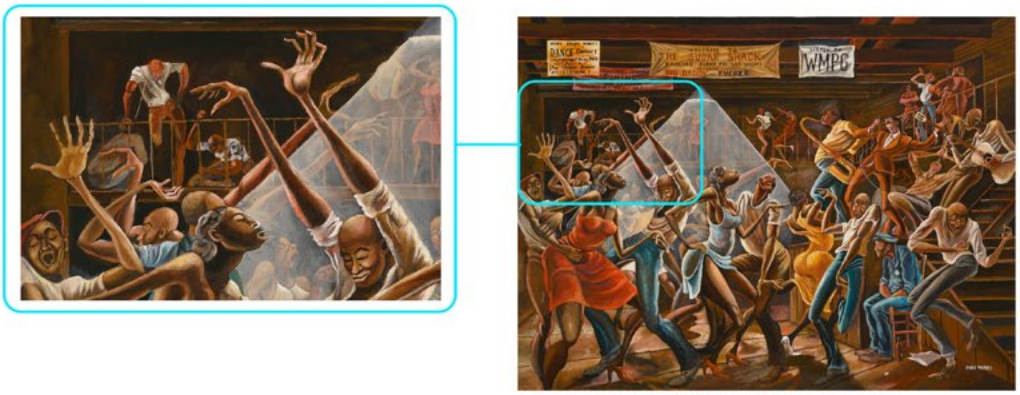
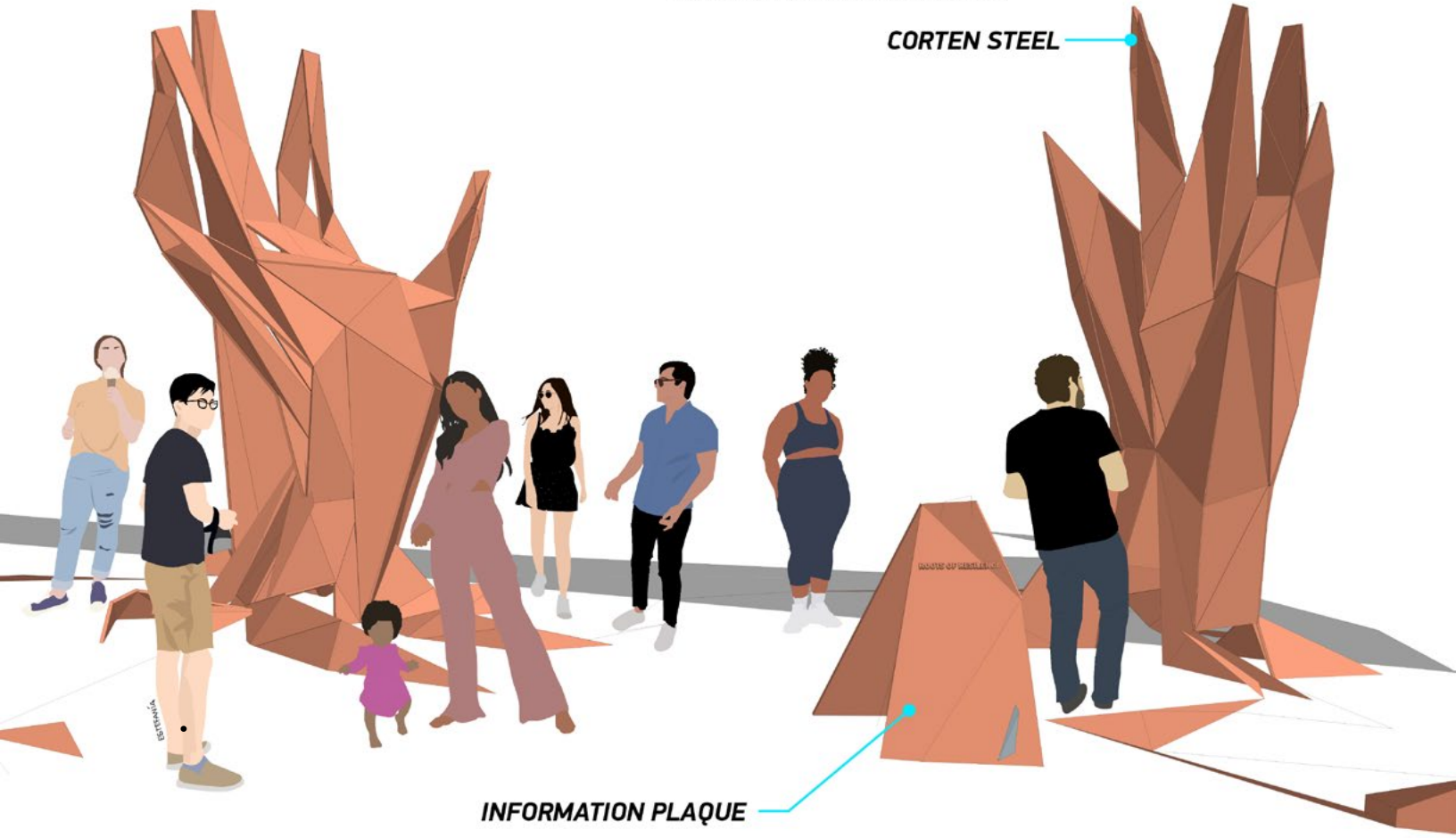
RENDERINGS AND PROJECT NARRATIVE



ERNIE BARNES ***SUGAR SHACK***



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ROOTS OF RESILENCE
PROJECT BUDGET

Item			Cost	
Artist fee (not to exceed 25% of budget)			$	66,000.00
Materials				
(see fabrication)				
Fabrication				
Cor-ten steel fabrication, including materials			$	105,000.00
Plaque fabrication, design and installation			$	12,500.00
Installation				
Scaffolding rental			$	1,250.00
Installation crew	3	days	$	5,250.00
Portable toilet	1	month	$	250.00
Transportation/delivery				
Sculpture Delivery			$	1,500.00
Engineering cost/study				
Structural engineering			$	5,000.00
Accessibility			$	2,750.00
Permits/fees				
Allowance			$	3,500.00
Geological/site survey				
Soil report if needed			$	4,500.00
Foundation/concrete work				
Excavation	(no cuts deeper than 5'-0")		$	9,500.00
Formwork &	250	sf flatwork	$	5,000.00
Concrete & finishing	250	sf flatwork	$	7,500.00
Retaining Walls	30	lin ft, avg 3ft high	$	5,550.00
Site walkways & stairs outside perimeter of cor-ten sculpture				
Allowance	1800	sf flatwork	$	45,000.00
Allowance	150	lin ft stair tread & curb	$	11,250.00
Lighting				
Sculpture and path lighting			$	17,500.00
Landscape repair: sod & irrigation replacement			$	7,500.00
Contingency (not to exceed 10% of budget)			$	32,000.00
Total budget for artwork:			$	348,300.00

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MAINTENANCE PLAN

The advantage of using cor-ten steel is its lasting durability. Any markings can be acid-washed off and it will over time resume its lustrous patina.

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www.formfounddesign.com info@formfounddesign.com (562) 380 0957

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FORM FOUND DESIGN

Form Found Design is an award-winning, Los Angeles-based architecture and design studio, operating at the intersection of technology and nature. We explore novel design solutions by studying the forces in nature, listening to the needs of our clients, and applying our own design expertise. We endeavor to innovate and create new opportunities for design to impact society.

SELECTED WORK

MARS PAVILION

Year Built: 2017
Client: Amazon
Team: Walter P. Moore Engineering, ABB Robotics, CTS Rapid Set, Helix Steel
Location: A+D Architecture and Design Museum, Los Angeles

The MARS Pavilion is a 15' tall proof of concept for robotically-cast fabric formwork for a free-form concrete structure. We worked with roboticists, engineers, fabricators, steel suppliers, and concrete manufacturers.

CYTOCAST

Year Built: 2018
Client: The LAB Anti-Mall
Team: CTS Rapid Set, Helix Steel, Walter P. Moore Engineering, OCC Architecture, OCC Welding, OCC Machine Tech., OCC Fashion
Location: Costa Mesa, CA

Cytocast is an 8' tall art installation at the LAB shopping mall in Costa Mesa. Exploring the behavior of the mall's young clientele, the pavilion acts as both a portal and a landmark for wayfinding.

THREE-FOLD

Year Built: 2022
Client: Cal Poly San Luis Obispo, Architecture
Team: OCC Architecture, OCC Welding,
Location: Cal Poly San Luis Obispo

Inspired by the way various civilizations have viewed the afterlife and eternity, the team from Orange Coast College, advised by Professor Joseph Sarafian explored the geometry of a truncated tetrahedron (a pyramid with its corners removed) naming their project "Three-Fold".

MINAFOLD

Year Built: 2016
Client: (Working with Perkins + Will)
Team: Ampersand Contract Signing Group, Perkins + Will team
Location: Greenbuild Conference 2016

Minafold uses 177 sf of recycled sheet material (aluminum) and turns it into a self-supporting structural element through bending (at the macro scale) and folding at the micro scale. The surface is then triangulated and perforated with a variable size aperture to create a shade structure.

PUBLICITY

AWARDS

- Best Young Practices, 2020 Archdaily.com
- Amazon MARS Pavilion shortlisted for Architizer's people's choice
- Best in Class (Cal Poly San Luis Obispo Design Village Competition 2022)

PUBLICATIONS

- FABRIC[ATED], Routledge (Forthcoming Book)
- Detailed Podcast, 23: Helix Steel | MARS Pavilion By Cherise Lakeside
- Podcast: IAAC BIM Robotics, Ep. 21 by Ara Keuroghlian and Salvador Calgua
- "Robotic Formwork in the MARS Pavilion: Towards The Creation of Programmable Matter" ACADIA
- "MARS Pavilion Experiments with Robotic Construction", Architect's Newspaper, Ross
- "Fabric-Formed Robotic Facades" Façade Tectonics Conference
- "Fabric Forms: The Robotic Positioning of Fabric Formwork" Rob|Arch, Springer

SPEAKING ENGAGEMENTS

- Robotics in Architecture 2016, Sydney, Australia 3/19/16
- Facade Tectonics World Congress, Los Angeles 10/10/16
- Now Next Future AIACC Lecture, UCLA 10/28/16
- USC Architecture Generation Next Lecture 3/8/17
- Amazon MARS Conference 3/21/17
- Tehran, Iran Skype Lecture 8/23/17
- MARS Pavilion A+D Museum Exhibit 7/21/17
- Lecture ACADIA Conference, MIT 11/4/17
- Amazon MARS Conference 3/20/18
- Lecture at LA Construction Specifications Institute 2/20/18
- Lecture at Cal Poly Pomona 4/6/18
- Lecture at Disney Imagineering 6/8/18
- Robotics in Construction Summit, Boston, MA 6/21/18
- Lecture at Ehrlich Yanai Rhee Chaney Architects, June 12, 2019
- Guest lecture on Computational Design at USC in Alvin Huang's Graduate Seminar 1/22/20
- Keynote Speaker at International Architecture Conference: Computational Design: NEXT 3.0 , 1/24/21
- Lectured at Temple University Tyler School of Art and Architecture 3/5/21
- American Concrete Institute Conference, Orlando, 3/30/22
- Keynote Lecture, Finnish Architectural and Concrete Award Webinar in Helsinki Finland on 3/31/22

REFERENCES

MARS Pavilion:
Bill Banta - Amazon, (408) 931-1817
Dora Epstein Jones - A+D Museum, (310) 529-0326

CYTOCAST:
Julie Shumaker - The LAB Anti-Mall, Julie@thelab.com

MINAFOLD:
Erik Aukee - Perkins & Will, Eric.aukee@perkinswill.com

Joseph Sarafian, AIA

CEO, Co-Founder

joseph@formfounddesign.com
(310) 995-7297

Architect — CA Lic #C37996
Professor
Orange Coast College

Joseph Sarafian, AIA is CEO and Co-founder of Form Found Design. Joseph developed an expertise in computational design while studying architecture at the University of Southern California and continued that passion while working for Synthesis Design + Architecture, where he designed and developed an award-winning portfolio of international projects in China, Thailand, Italy, as well as local projects in the US. Joseph met Ron while in graduate school at the University of California Los Angeles, where they realized the potential for industrial robots in the construction industry, opening their practice, Form Found Design upon graduation. Joseph is concurrently a Professor of Architecture at Orange Coast College.

EDUCATION

University of California Los Angeles (UCLA)
Los Angeles, CA, Architecture, Master of Architecture Degree, 2015

University of Southern California (USC)
Los Angeles CA, Architecture, Bachelor of Architecture Degree, 2011

PROFESSIONAL EXPERIENCE

- 2017-Orange Coast College, Professor, Architectural Technology
- 2017 Orange Coast College, Part Time Adjunct Faculty, Architectural Technology
- 2017 Built MARS Pavilion for Amazon MARS Conference
- 2015-Form Found Design Inc., Co-Founder and CEO of Robotically-cast concrete company to design and build architectural systems.
- 2015-17 Perkins+Will, Architectural Designer, Design lead on 4000 sf Arts Incubator renovation. Design lead on “Minafold Pavilion”
- 2011-14 Synthesis Design+ Architecture, Architectural Designer, Designed and drafted large + small-scale International projects.
- 2010 Construction volunteer for Habitat for Humanity (residential construction)
- 2007-08 New Orleans Reconstruction with nonprofit org.
- 2011 RCDF Studio, Architectural Designer, Hydroponic Vertical Farm Competition, Duplex Schematic Design.
- 2011 John Friedman Alice Kimm Architecture, Architectural Designer, Designed and created renderings for Biomedical Research Library.
- 2011 DLR Group WWCOT, Architectural Designer, Designed and coordinated LA Valley College competition in Revit
- 2011 Koning Eizenberg Architecture, Architecture Intern, Model making, Drafting, 3d Printing.
- 2007-09 Frederick Fisher & Partners, Architecture Intern, drafting, construction of physical and computer models.

Ron Culver, AIA

COO, Co-Founder

ron@formfounddesign.com
(310) 721-9867

Architect — CA Lic #C30815
Contractor — CA Lic #B955873
Guest lecturer
SCI_Arc, UCLA, Cal Poly Pomona, Orange Coast College, USC

Dedicated to research in emerging technologies, Ron’s work as co-founder and COO of Form Found Design Inc (FFD) includes groundbreaking uses of technology to solve real-world design and fabrication problems. FFD is responsible for the world’s first robotically cast concrete pavilion which has been on display at the Amazon MARS Conference and the A+D Architecture and Design Museum in Los Angeles. Ron has founded design-build architecture and construction practices on both the US and Canada. Most recently, Ron was the managing director of Michael W. Folonis Architects, in Santa Monica, CA.

EDUCATION

University of California Los Angeles (UCLA)
Los Angeles, CA, Architecture, Master of Architecture Degree, 2015

Southern California Institute of Architecture (SCI_Arc),
Playa Vista & Los Angeles, CA; B.Arch With Distinction, 2004

Vancouver Community College,
Vancouver; Advanced Music Theory & Performance, 1982

PROFESSIONAL EXPERIENCE

- 2015-Form Found Design Inc.: Co-founder and COO of startup specializing technology-based design solutions
- 2016-22 Michael W. Folonis Architects, Santa Monica: Managing Director of 15-person architecture firm specializing in large-scale mixed-use residential projects in scale from 3 units to 40-story towers
- 2004-14 Culver Architects Inc., Los Angeles: Principal of 7-person Architecture / Interiors / Landscape Design Firm; Over 50 built residential, restaurant, non-profit & commercial projects; developer of the Adaptabode pre-fab component building system
- 2000-04 Culver Design Inc., Los Angeles, CA: Design of residential, performing arts, restaurant projects; over 15 built projects,
- 2000-04 Design Consultant, various: Sander Architects, Venice CA / Jenkins, Gales & Martinez, Inc, Los Angeles: Dongzhimen Transit Hub / James Heimler Architect Inc., Los Angeles: Biosphere design / A.C. Martin Partners, Los Angeles: Planning Department Project Specialist for SCAG MagLev High Speed Rail Airport Connector / Building Inc./Michele Saee, Los Angeles: Publicis Drugstore Cinema Complex, Paris, France
- 1994-99 Culver Design & Construction, LTD., Vancouver, BC: President, Design-build commercial, restaurant & residential projects; over 45 built projects
- 1987-93 Hanson Culver Construction, Los Angeles: Partner: Design-build; commercial & residential projects; over 25 built projects

Davon Johnson, M.Arch, LEED GA

Creative Director, Architectural & Production Designer

323.828.6721
designs@davonjohnson.com
@davon_thecre8tor

Davon Johnson, Senior Designer of Davon Johnson Designs is an established production designer, art director and architectural designer with multidisciplinary expertise in architecture, production design and artwork. He has been commissioned for high profile television shows, brand experiences, creative direction and interiors for clients such as Coachella, RCA, MTV, Los Angeles Lakers, as well as music artist such as Snoop Dogg, Megan the Stallion, Lil Nas X and Travis Scott. In 2020 he was the first Art Director to ever produce a performance at the SOFI Stadium for the NFL and Pepsi and was chosen to be the creative director for former President Barack Obama's 60th birthday.

EDUCATION

Hampton University
Hampton Virginia, Masters of Architecture Degree, 2013

Hampton University
Hampton Virginia, Bachelor of Architecture Degree, 2011
Studies Abroad, France, Urban Design, 2011

PROFESSIONAL CLIENTS

- Coachella: Music Festival
- Los Angeles Lakers
- NFL
- The Hammer Museum
- New York Fashion Week
- SOFI Stadium
- Troy Carter
- Pepsi
- RCA Records
- Lil Nas X
- Los Angeles Rams
- Usher
- The Ellen Show
- Hennessy
- Moca: Museum Of Contemporary Art
- Red Bull
- Grammys 2020

PUBLICITY

PUBLICATIONS

- Vogue
- La Times
- Flaunt Magazine
- Billboard
- Black Enterprise
- Dash Radio

COMMUNITY

- L.O.V.E. Art Series (Curator And Creative Director)
- N.O.M.A. (National Organization of Minority Architects)
- Just Teach Mentoring Program
- Crenshaw District Urban Revitalization Group

PROFESSIONAL AFFILIATIONS

- The National Organization Of Minority Architects (Noma)
- Leadership In Energy & Environmental Design (Leed)

REFERENCES

Live Nation:
Mike Carney - LIVE NATION
770.896.9946 macmgmt1867@gmail.com

YO! MTV RAPS:
Warren Oliver - YO! MTV RAPS
646.337.3741 Warren@hollandwestproductions.com

REVOLT TV/NBC:
Naydea Davis - REVOLT TV/NBC
310.946.8987 naydea@thenddm.com