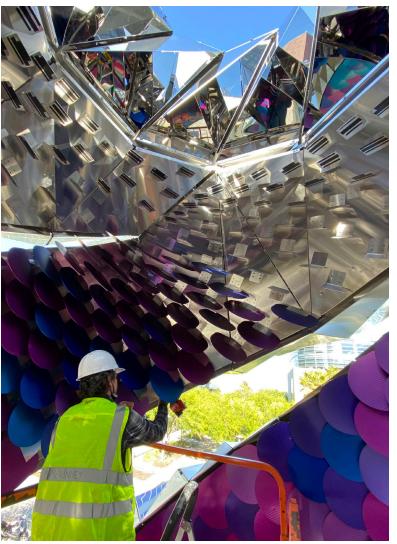


CONTENTS

- ORBITAL THREE LEGGED MONSTER FUTUREFORMS Fabrication Manager
- 2 COSMOS PARASOL WITH A GOLDEN RATIO FUTUREFORMS Fabrication Manager
- 3 CONSTELLATIONS ROUND ROUND DIGITAL THEATER FUTUREFORMS Fabrication Manager, Lighting Systems Design
- **CEPHALOSCAPE** APPROACHABLE ATTACKING SKIN GREY AREA GALLARY Artist
- WEATHERSCAPE MUSEUM MIST MACHINE FUTUREFORMS Fabrication Manager
- **STRIPTEASE** INTERACTIVE TICKER TAPE CAL POLY Student

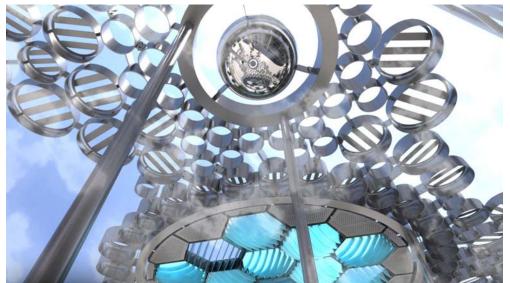


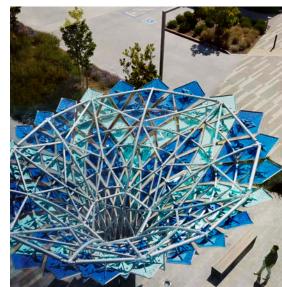


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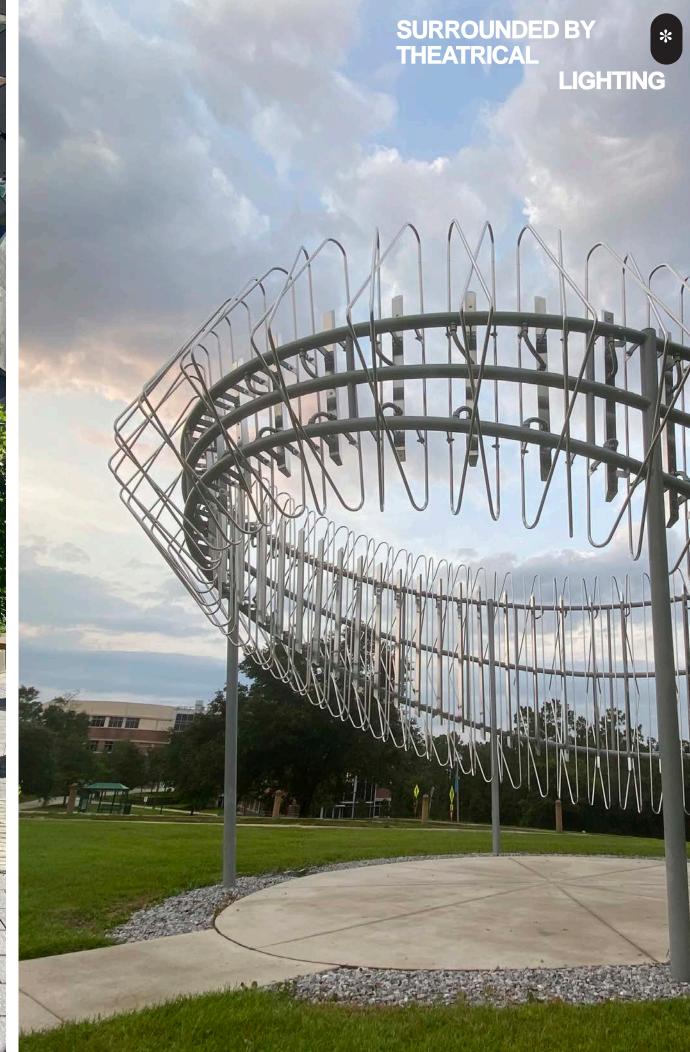
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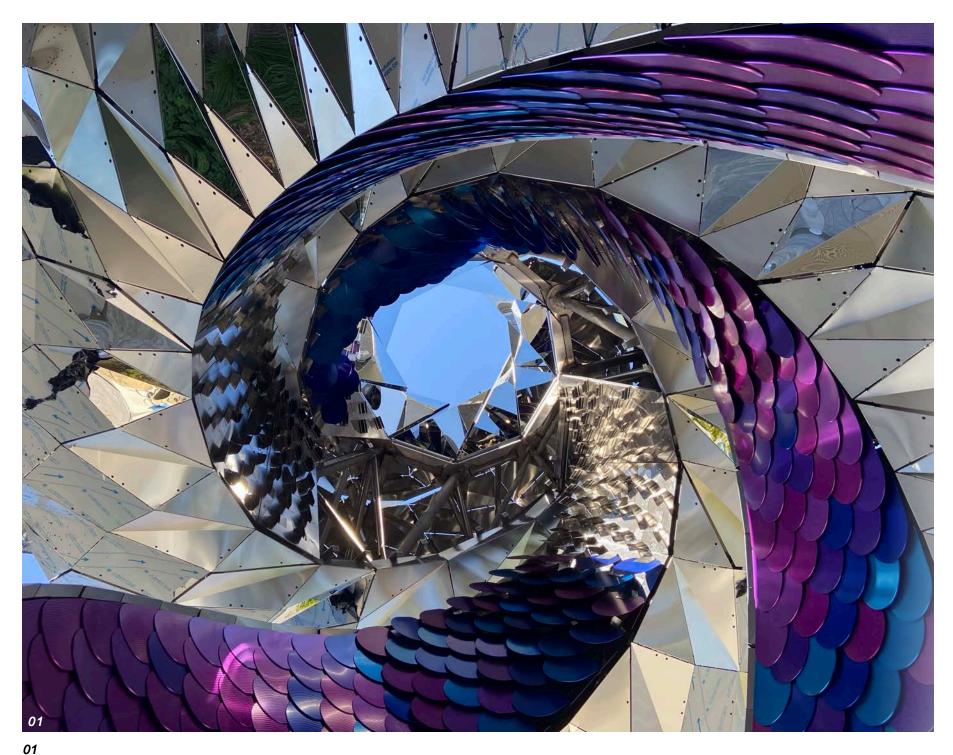




5











ORBITAL

ROLE Fabrication Manager

DESIGN TEAM FUTUREFORMS ARUP Olson steel

LOCATION Uber Headquarters Mission Bay, San Francisco

> YEAR Completed 2021

THREE LEGGED 1 MONSTER 1

U

Looking up through the Anodized Aluminum shingles and reflective oculus.

02

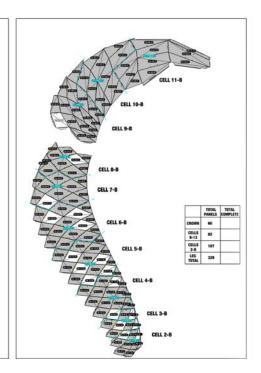
Structure, **skinnless**, bearing only its secondary framing

03

On site with the first leg enveloped in Stainless Steel skin

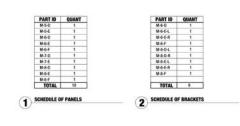
Orbital's 3 monstrous legs twist towards the sky in the courtyard of the new Uber Headquarters in San Francisco. It's hard exterior is made of bent stainless steel panels that jump between highly reflective and matte as they twist upward. While the mysterious legs maintain a hard exterior their underbelly is clad in delicately milled aluminum shingles colored in hues of purples, blues and pinks.

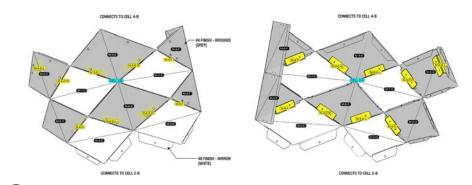
I scripted construction details, laid out part files, worked with various fabricators to have parts formed and finished, and managed a team to assemble both interior and exterior skin parts.



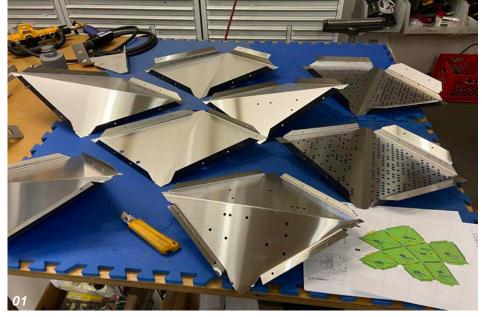
(1.1) Leg A Unrolled assembly diagram





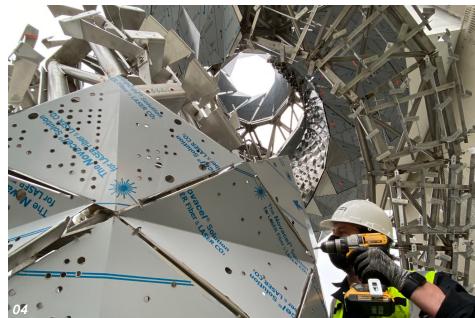


(1.2) Cell 3 Side B Bracket and panel assembly





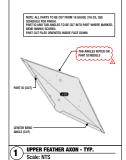


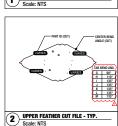


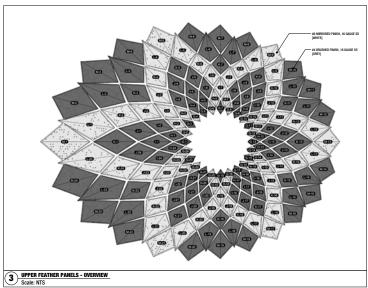
Pyramid panels, quality control passes, awaiting assembly

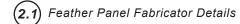
Pyramid panel cluster assembled and studio fit up confirmed

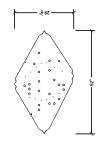
Clusters 3A and 3B test fit on site with access panel

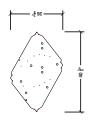


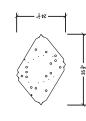


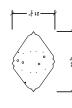












2.2 Feather Panel CUT FILE reference

TITLE

COSMOS

ROLE

Fabrication Manager

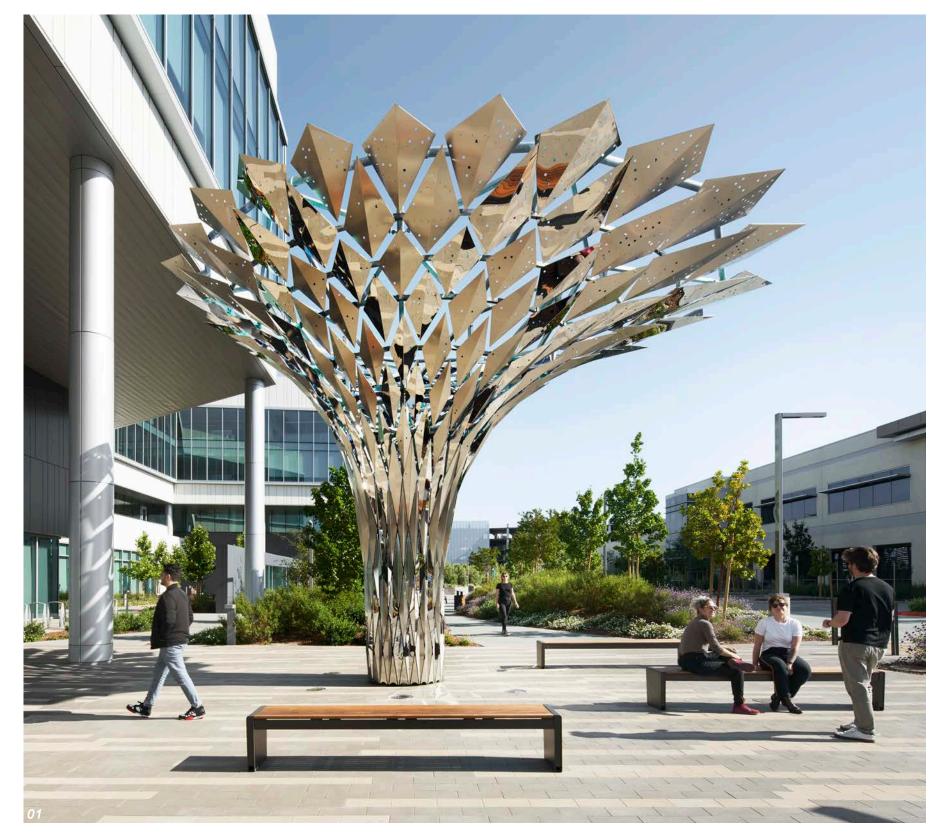
DESIGN TEAM FUTUREFORMS Endrestudio NJM

PROJECT LOCATION
Intuitive Surgical Campus
Sunnyvale, CA

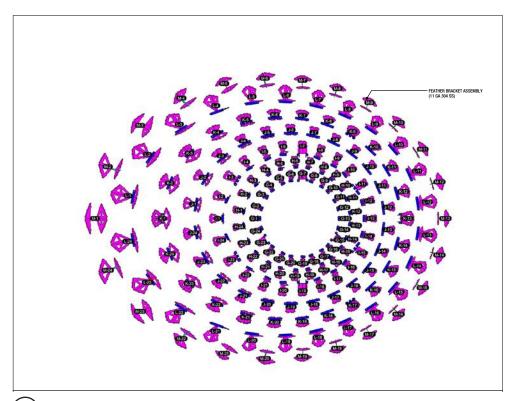
DATE Installed 2020



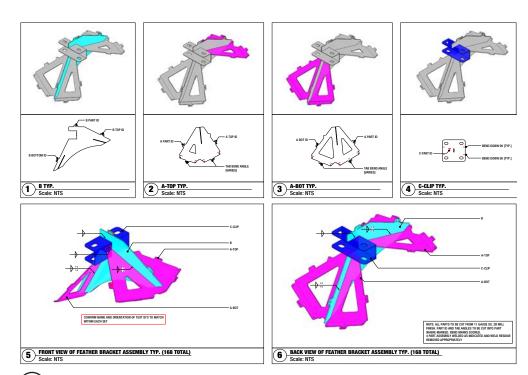
Located at the entry of Intuit Surgical's main building, Cosmos's stainless steel feathers use Leonardo Da Vinci's fibonacci sequence as inspiration to parasol over the pathway. The feathered parasol welcomes employees and visitors into their research facility for robotic surgical tools. I scripted technical details for this project, laid out part files, worked with fabricators to have parts made and finished, and organized the team from assembly through final install.



01Photo by Matthew Millamn
View of Cosmos at Entry

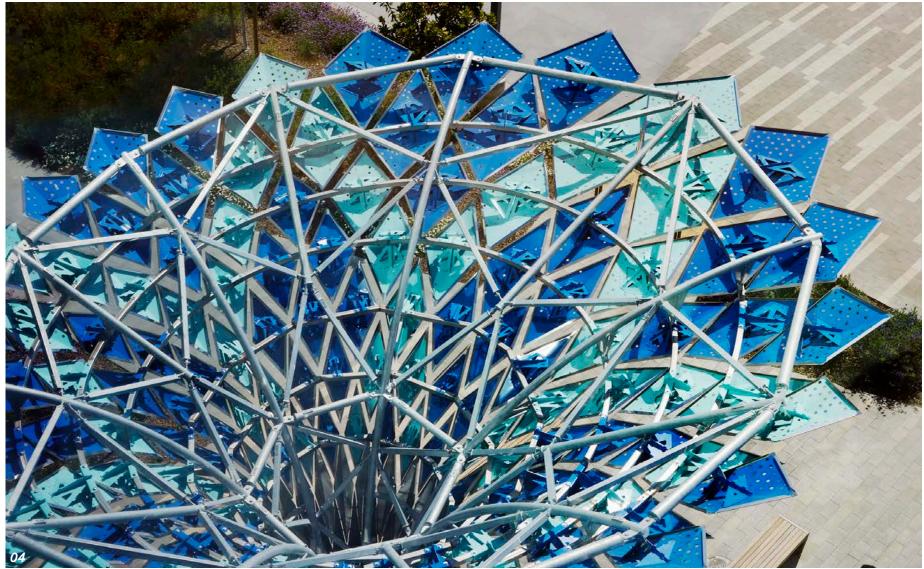


2.3 Feather Bracket Layout



(2.4) Feather Bracket fabrication guide (cut, assemble and weld)



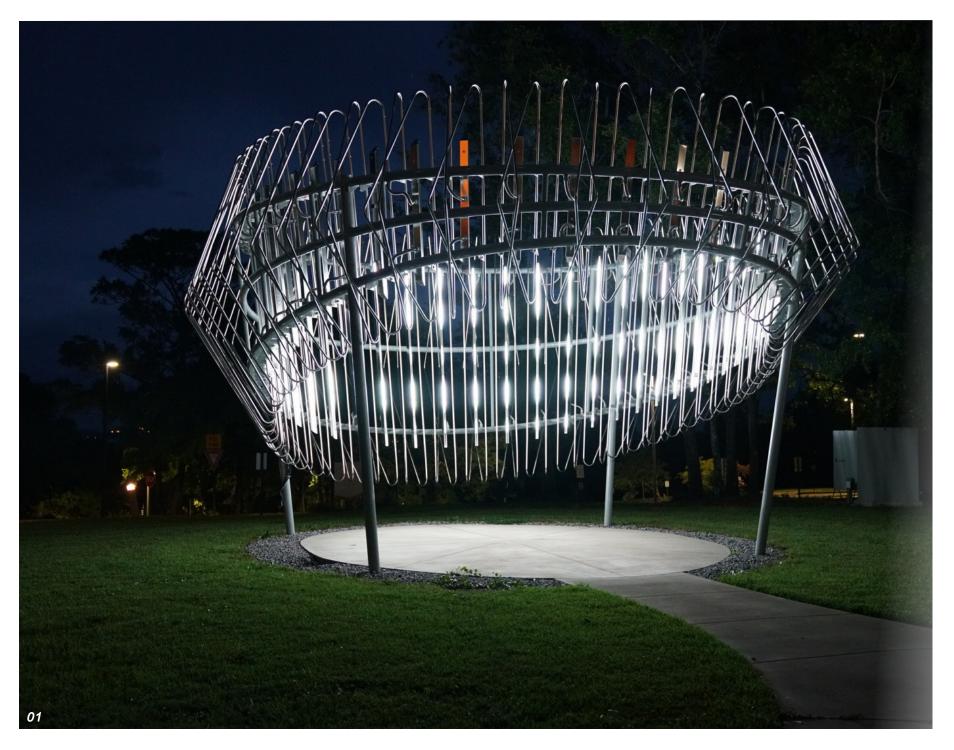


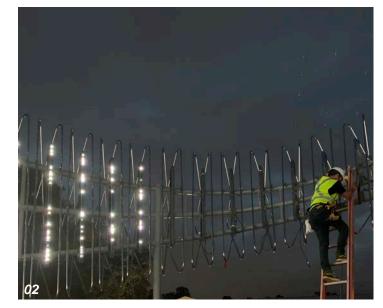
Inner panels between stainless steel fabricator and powder coating

Feather Panel, Inner Panel and Feather Bracket Assembly

View of Cosmos from above Mid Installation

Photo by Matthew Millman View of Cosmos from above







TITLE

LOCATION University of West Florida Pensacola, Florida

DESIGN TEAM FUTUREFORMS

YEAR 2020

ROLE Lead Programmer, Fabrication Manager

TECHNOLOGYTouch Designer, Pharos
Designer, Grasshopper

01

view through the preforming art center field of the cloudscape animation

02

Mid installation, LEDs coming online as they are connected to main controller hub

(

Program testing in SF studio

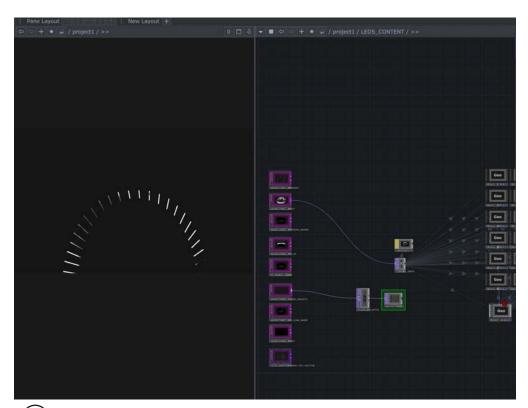
C

Sculptural element staging

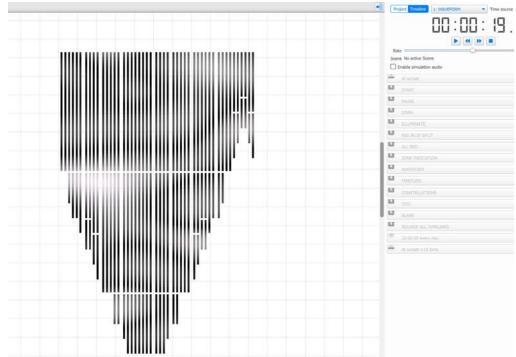
Constellations is a digital theater in the round located on the University of West Florida Campus. The welcomes students and visitors to step inside the low res pixel display woven through stainless steel lattices. Animations mimics natural typologies of the world around us and pull from Pensacola weather data.

I designed the lighting system for constellations, laid out wiring diagrams. I created animations using Touch Designer pulling various data sets to inform graphics and then translating these into DMX language for both test sequences and the final artwork scenes.

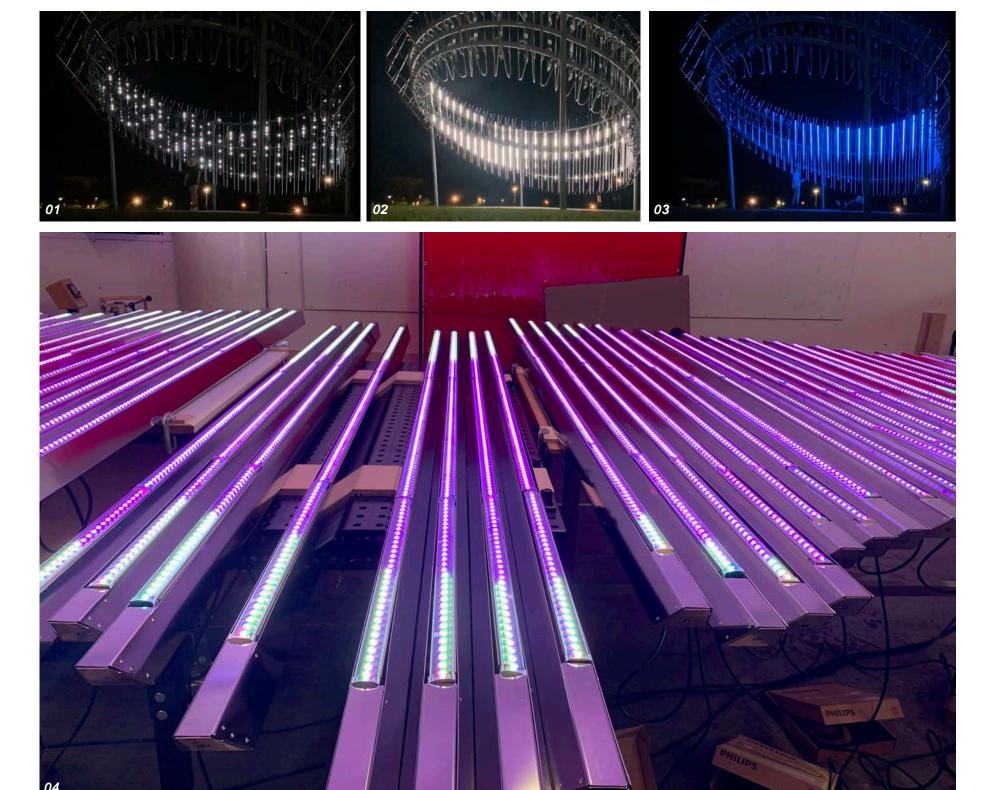




(3.1) TouchDesigner animations and scene preview



3.2 Pharos Designer sequencing and preview

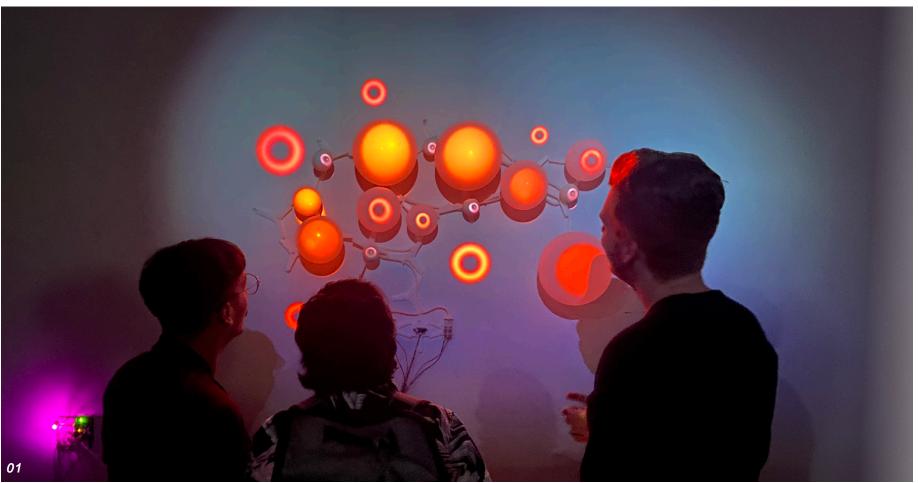


Constellations starscape Animation

Cloudscape Animation

Blue Wave Animation

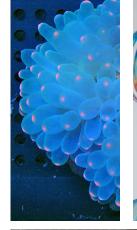
Resolution and color range testing in the studio



















TITLE CEPHALOSCAPE

PROJECT LOCATION Grey Area Gallery, San Francisco

> PROGRAM Grey Area Creative Coding Immersive

> > **DATE** 2022

MATERIALS
PLA, latex balloons,
Silicone Tubing,
motorized pumps

TECHNOLOGY Arduino, IR sensor, Mad Mapper

01

Gallery viewers approaching the expanding and contracting cscape

02

Detail views of cspace layered skin construction

03

Anemone and cepholopod inspiration images
Process, inflation testing

In Cephaloscape the porous and textured screen will mimic the cellular makeup as it exists in a carefree daily motion and as it's impacted by external forces, threats, food sources, potential mates and symbiotic counterparts. As viewers move around the piece they can trigger both touch and sensor events, acting as threat or rewards in the cellscape system. Events will illuminate the cellscape with different projections, changing its looks, feel, color and texture for the viewer to fall prey to the show. I designed the physical skin, coded the inflation and approach responses, and developed projection mapped artwork for Cephaloscape.









TITLE

WEATHERSCAPE

ROLE

Fabrication Manager

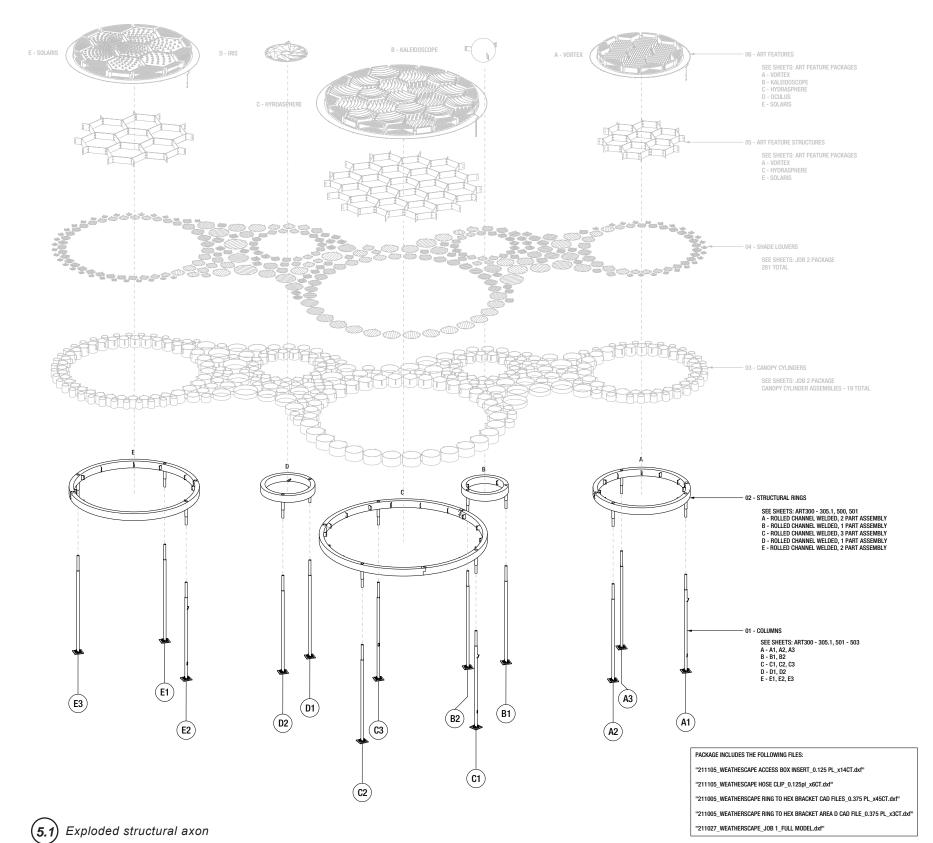
DESIGN TEAM FUTUREFORMS

Endrestudio NJM

PROJECT LOCATION EL PASO, TX

DATEIN PROGRESS

PROGRAM
Interactive shade canopy
for the El Paso Children's
Museum



01, 02

Photo taken at NJM (steel fabricator of canopy layout and welding

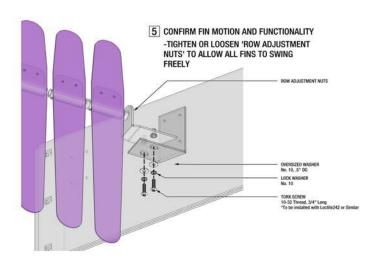
03

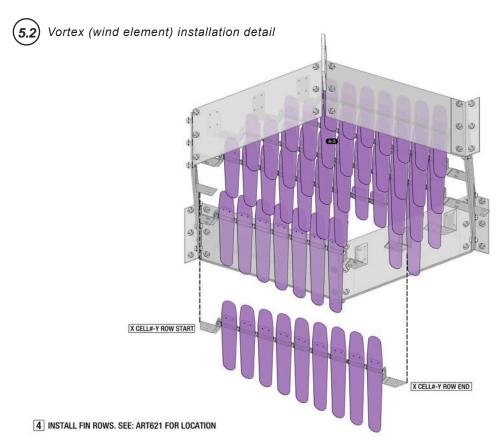
Design Rendering by FUTUREFORMS View of the canopy from above



Weatherscape is a functioning ecosystem of weather systems contained into a single shade canopy. Each circular zone contains a different event (Wind, Sun, Water etc) Integrated misting and fog systems activate the canopy and provide additional cooling in the Texas heat.

I working with our team and engineers to make **construction drawings for the structural steel**. I **scripted and designed fabrication details** for various weather event pods and **facilitated the fabrication**, assembly and packing of these elements.





5.3 Vortex Installation sequence

01

Vortex (wind event) studio assembly and fit up

02

Vortex anodized fins laid out for packing

03

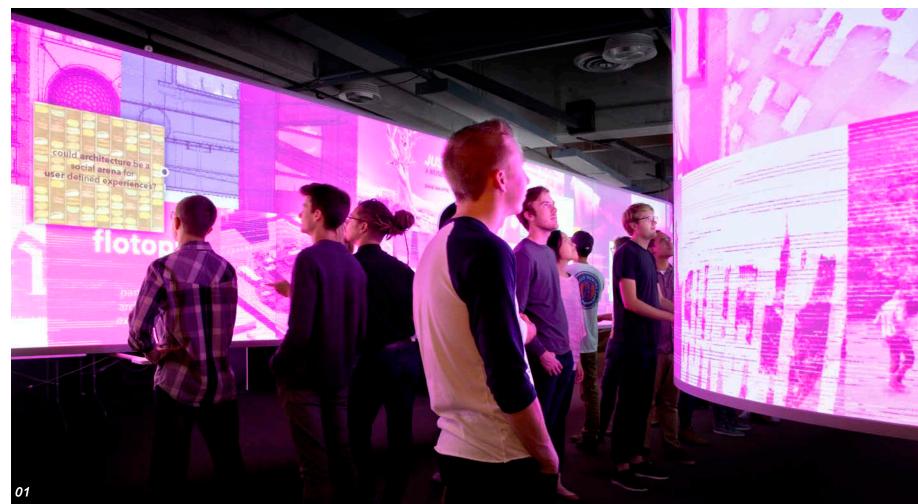
Iris (aperture event) mid assembly





04

Solaris (sun event) assembled and installed facing upwards in the studio

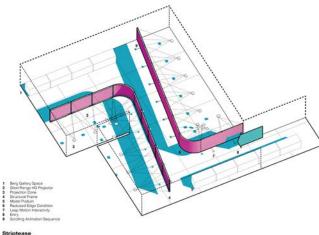












Striptease Layout Diagra

6.1) Gallary Layout Axon

STRIPTEASE

PROJECT LOCATION
Berg Gallery, Cal Poly San
Luis Obispo

TEAM Studio Jackson

DATE 2015

MATERIALS
Custom Projection Screens
(MDF, Steel, Fabric)

TECHNOLOGY Leap Motion Sensors, Projectors

100



01

Everyone who enters the gallery is surrounded by content streaming around them.

02

Individual viewers have control of selecting and viewing content in front of them

Striptease, was an immersive, interactive show presenting all of the thesis projects from Doug Jackson's studio 2015. As a studio we deigned, and constructed two screens that ran the length of the Bulge gallery. We projected a streaming ticker tape sequence onto these screens. Viewers were surrounded by content streaming on either side of them through the gallery. Viewers were able to use sensors to pick projects from the ticker tape stream and view them at their leisure while the other projects streamed by.

I built a website to view gallery contents before and after the opening and organized the opening day live stream from the gallery.



NATALLE ABBOTT www.natalieabbott.com