



CYNTHIA ANDUJAR

MASTER OF INTERIOR ARCHITECTURE  
STUDENT ASID | STUDENT IIDA

## EDUCATION

### MASTER'S DEGREE

Interior Architecture  
Chatham University  
CIDA Accredited Program  
Exp. Grad. May 2021, GPA: 3.98

### BACHELOR'S DEGREE

Mechanical Engineering  
North Carolina State University  
Summa Cum Laude, May 2012

### CONTINUING EDUCATION

Pittsburgh Glass Center, 2016, 2018  
Maker Accredited Professional, 2017  
Arts & Design at CCAC, 2016

## ACCOMPLISHMENTS

Outstanding Student Achievement, 2020  
ASID Portfolio Comp., Semi-Finalist, 2020  
IIDA Product Runway, Fire & Ice, 2019  
IDLCP, Certificate of Merit, 2019  
Graduate Teaching Fellowship, 2018  
Guest Artist in Art Exhibition, 2016  
Disney's Great Service Fanatic, 2014  
Imaginations Semi-Finalist, 2013

## SOFTWARE

BIM: Revit, Chief Architect  
CAD: AutoCAD, SolidWorks, Fusion 360  
Adobe: Indesign, Illustrator, Photoshop

## LANGUAGES

Spanish (conversational)  
French (basic)

## EXPERIENCE

### DESIGN INTERN

Franklin Interiors, Pittsburgh, PA | Spring 2020

- Assisted designers in selecting finishes and calculating SQFT in software CET
- Managed library samples and maintained current database

### EXHIBIT DESIGN INTERN

Children's Museum of Pittsburgh, Pittsburgh, PA | Fall 2019 & Spring 2020

- Assist in the space planning of the Daniel Tiger's Neighborhood Pop-Up Version
- Design signage and graphics for the 1894 Howard Tower Clock and animation for Praxinoscope project

### INDEPENDENT

Pittsburgh, PA | 2016 - 2018

- Teaching Artist, Pittsburgh Center for Creative Reuse | 2016 - 2018
- Mathematics Tutor, Pittsburgh Tutors | 2017 - 2018
- Guest Artist - Technology & Arts, Assemble Inc. | 2016 - 2018

### DESIGNER

Pittsburgh Basement Company, Monroeville, PA | Summer 2017

- Selected finishes for clients in residential projects and worked closely with contractors during installation
- Generated 3D renderings and drawings for proposals in alignment with budget, time frame, and style

### STAFF | ENGINEER

Mine Safety Appliances, Cranberry Township, PA | 2014 - 2015

- Developed metal and plastic designs and CAD models, collaborated with vendors in multi-discipline teams, and performed injection molding simulation and testing
- Designed fixtures for operators in manufacturing, project managed high-priority mold assemblies, and drafted drawings to expedite production

### CLIENT SERVICE MANAGER, JR.

(Zero Chaos) Walt Disney Company, Orlando, FL | 2013 - 2014

- Served as the main point of contact between Disneyland Paris (DLP) and Walt Disney World manufacturing. Oversaw around 140 Disneyland Paris Orders, ranging from seat belts to audio-animatronic parts
- Addressed production delays, reviewed finances to meet budget, and submitted weekly status reports to management and clients
- Improved customer relations with DLP and sales increased by 60%

### ENGINEERING CO-OP & INTERN

Walt Disney Company, Orlando, FL | 2011 - 2013

- Replaced electrical and mechanical components in audio-animatronics during rehab attraction projects and created drawings in SolidWorks
- Drafted mechanical drawings in Solidworks and electrical drawings in AutoCAD



# THE CLOCKMAKER

BOUTIQUE HOTEL

View to Hotel Reception

## PROJECT DESCRIPTION

The Old City Philadelphia houses one of the greatest discoveries of all time - a mechanical boy, known as an automaton, that can write poems and even draw masterpieces. For almost 130 years, its creator was attributed to another inventor until the mechanical boy signed its name, revealing its true inventor. This Clockmaker hotel brings an immersive experience into the past while paying its respect to the original inventor, a clockmaker.

## CLIENT | GOALS

A writer  
A playwright  
A publisher

To promote storytelling and a sense of community



To hold workshops and engage in creative discussion



To feature a book store that promotes local writers



To provide a community between locals and visitors



Sketch of a Clockmaker at Work

## SUMMARY

- Located in Historic town of Old City Philadelphia, Pennsylvania
- Delivers modern amenities in rustic style
- Includes a vintage game room for guests
- Offers exceptional on-site bakery, coffee shop and book store

### Clockmaker's Mission Statement

The Clockmaker Hotel's goal is to commemorate the **original creator**, Henri Maillardet, through an immersive experience into the past by bringing a community together through dining and retail, as well as partnerships with museums and residency programs.



Residency Programs



Cultural Partnership

## LEVEL 1 FLOOR PLAN



## The Great Discovery



1800's  
The boy invented

The **mechanical boy**, known as Draughtsman-Writer, was believed to have been invented in early 1800's by Maelzel.



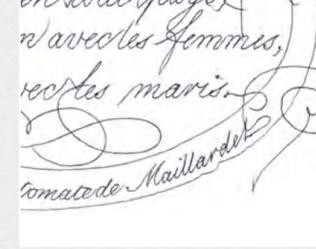
1865  
The disastrous fire

Across the country, several fires broke out in museums, believing to have housed the mechanical boy.



1928  
The burnt parts repaired

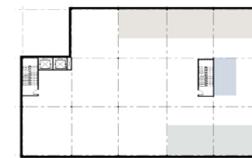
Burnt remnants of the mechanical boy were donated to the Franklin Institute, where a dedicated employee was able to repair it.



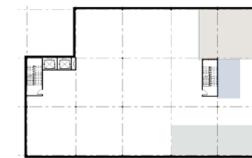
The true creator revealed

The mechanical boy drew masterpieces and wrote French poems, eventually signing as "Maillardet."

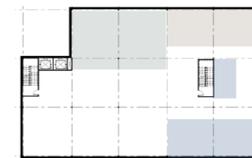
## SPACE PLANNING ITERATIONS



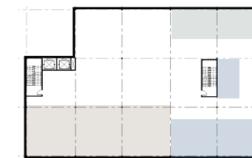
1. All 3 areas front access



2. Separate hotel from the other spaces



3. Increase bakery size



4. Hotel reception and bakery at front

The smell of baked goods and coffee has a way to draw people in and lead them to discover the book store.



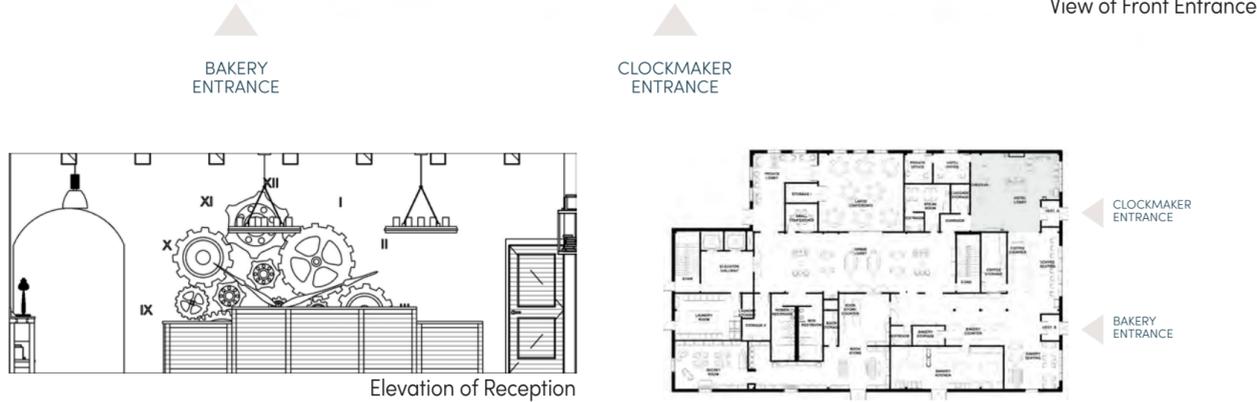
View of Front Entrance

## BUILDING STATS

- 13,060 SQFT per level | total 5 levels
- TYPE B, R1, & M Occupancy
- Old City Philadelphia, PA

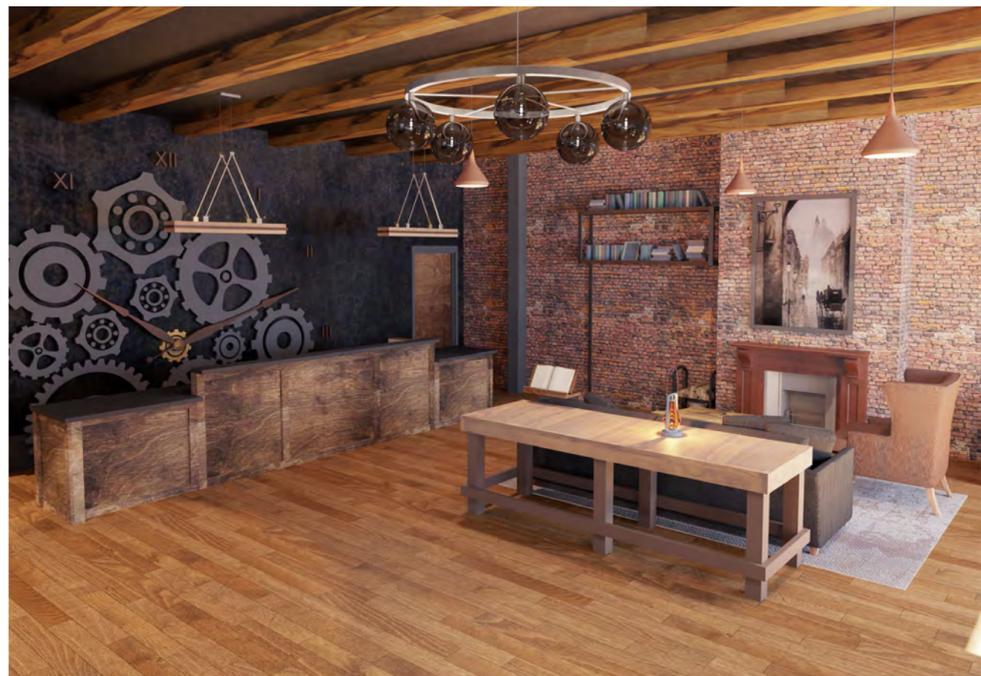
## THE CLOCKMAKER GRAND LOUNGE

Inspired from a train station as the clockmaker makes his way from his studio to his home, the grand lounge is an extension of the bakery for additional seating. The clock at the end of the grand lobby signifies the end of the day, towards the elevators that lead to the hotel rooms.



## THE CLOCKMAKER RECEPTION

The reception aims to introduce the Clockmaker's work through a **rustic, studio shop in the city** while still providing comfortable lounge seating. This space is inspired from Henri Maillardet working in London producing clocks and mechanisms.



View of Reception from Bakery



View of Entryway



View of Grand Lounge & Olden Times (left doors)

## OLDEN TIMES BOOK STORE

This book store houses a collection centered around the 1800's era, evoking a time period for visitors to explore. In the corner of the book store exists a quiet room inspired from the village of Fontaines in France, where Henri Maillardet's career first started. It is also a whimsical area where **the imagination of a book breaks free.**



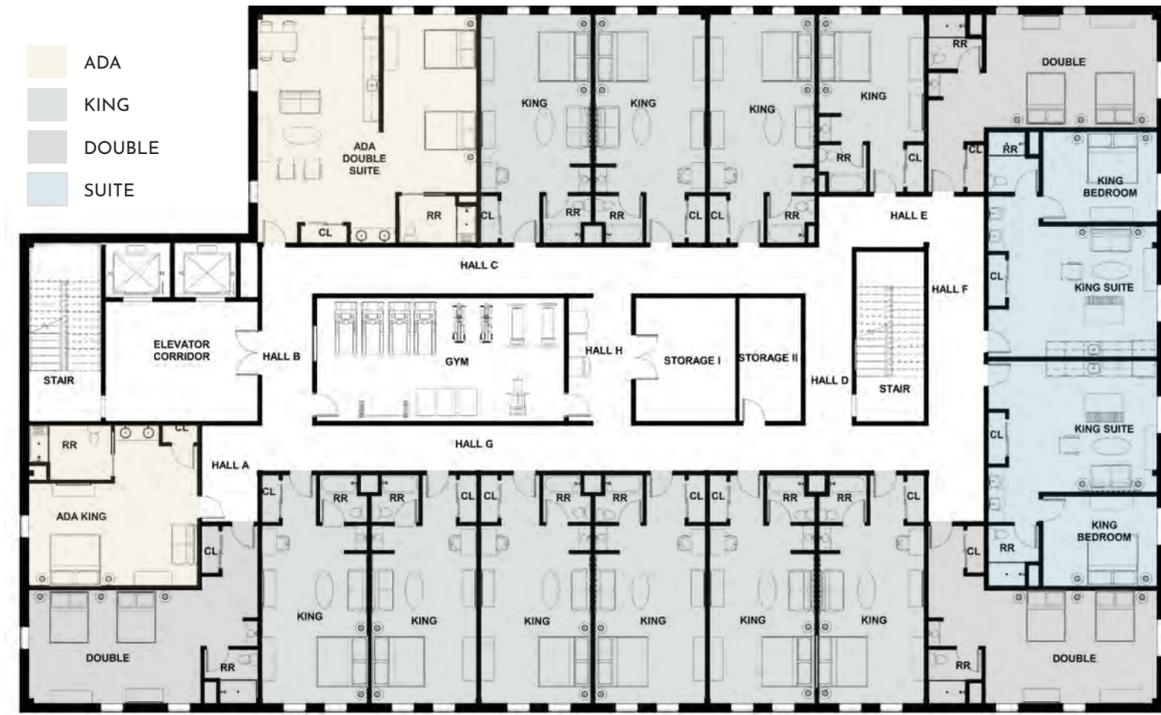
View to In-session Conference



View to Secret Room in Book store



LEVEL 2 -5 FLOOR PLANS



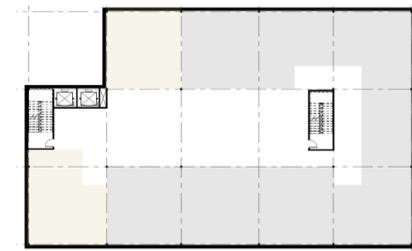
LEVEL 2 - 3

PARTNERSHIP WITH MUSEUM

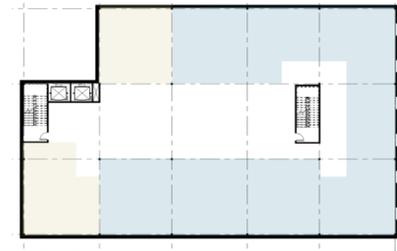
The Franklin Institute is a science family-friendly museum that houses Henri's Maillardet's automaton, the mechanical boy. More rooms are designated as double on level 4 and suites on level 5 to accommodate groups and families

RESIDENCY PROGRAM

The Clockmaker Hotel provides residency programs for aspiring writers, publishers, and playwrights. The Theater room is used as a collaborative space but also to showcase a small performance with the potential to be picked up by a local theater company.

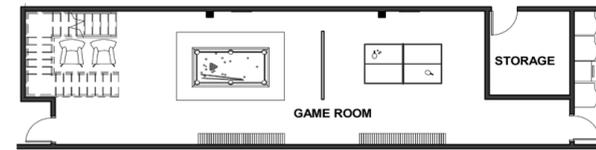


LEVEL 4

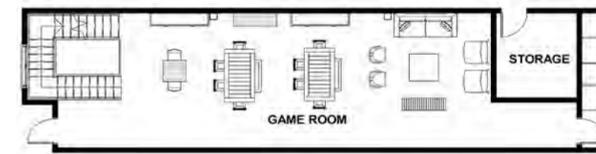


LEVEL 5

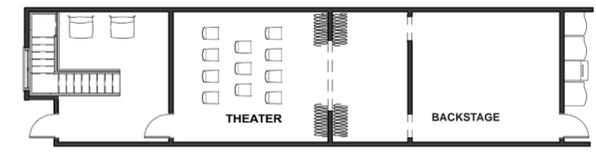
CENTER LAYOUT



LEVEL 3



LEVEL 4



LEVEL 5

THE CLOCKMAKER  
 GAME ROOM & THEATER ROOM

LEVEL 5 | Theater Room for Residency Programs

LEVEL 4 | Reproduction of vintage board games & toys

LEVEL 3 | Pool & tennis table

LEVEL 5

LEVEL 4

LEVEL 3



Cross section of Entertainment Area

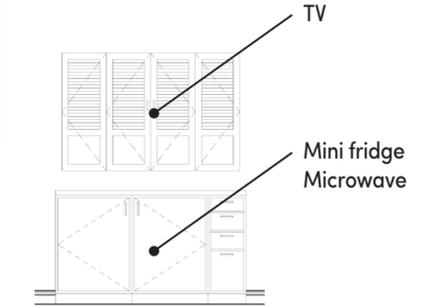


View of Standard Hotel Room



THE CLOCKMAKER  
 ROOM

Modern amenities are available to guests but are tucked away behind cabinets to help maintain immersion into the past.





**KOICURA**  
OBGYN CENTER

View of Entry to OBGYN Reception

**PROJECT DESCRIPTION**

The Koicura OBGYN center is part of the Koicura Women's Hospital, which focuses on a holistic approach on multiple aspects of health conveniently all in one location. While the Women's Hospital is a multi-story building, the scope of the project is the OBGYN center on the first floor, and it includes a restaurant and a daycare for not only patients but those who accompany them during this sensitive time.

**CLIENT | GOALS**



Holistic approach to wellness & healing



To maximize square footage in OBGYN



To introduce Asian influence



To collaborate with local artists



Concept Sketch of Chinese Folktale

**SUMMARY**

- Located in Uptown Pittsburgh, Pennsylvania
- Provides specialty services with traditional focus on gynecologic and obstetric (OBGYN) services
- Includes daycare for patients' young ones
- Offers a fast, casual restaurant with an express coffee bar

**The Little Koi's Transformation Despite All Odds**

In China, the koi is a symbol of perseverance and strength. The folktale is centered around a brave little koi who swims upstream against strong currents, finally reaching the intimidating waterfall to the Dragon's Gates. Determined to succeed, the little koi perseveres and reaches the top, transforming into a beautiful, magical dragon and revealing its true potential.



- OBGYN | EXAM
- DAYCARE
- DINING
- ELEVATOR

**SPACE PLANNING ITERATIONS**



1. Organic OBGYN center but not optimal use of space



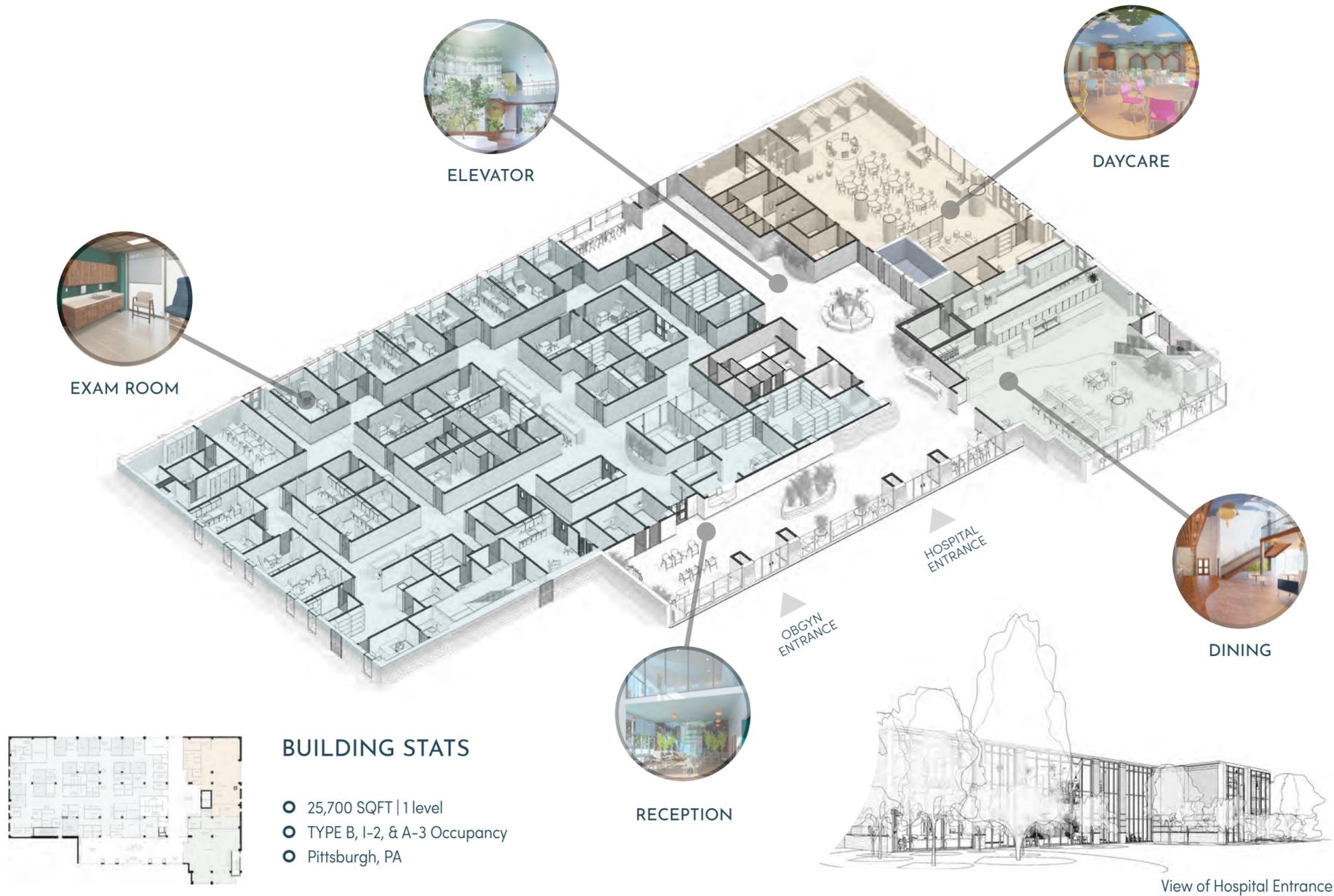
2. Maximize even further by minimizing hallway space



3. Cafeteria entrance near building entrance with daycare near elevator

**The Immersive Experience Through the Folk Tale**

The Koicura Women's Hospital sets itself apart by providing an immersive experience with each space signifying a specific journey towards the waterfall. It's goal is **to remind patients of their inner potential** through this Chinese folktale and to battle alongside their patients.



View of OBGYN hallway to entryway



Marker & Photoshop sketch of Asian house over lake

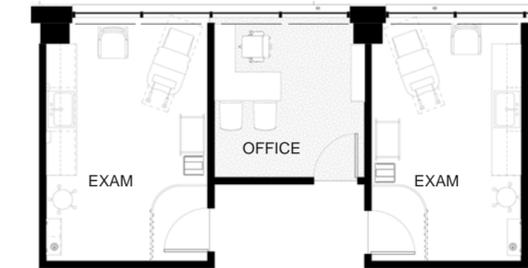


**Wellness starts with Employees to Better Serve**

- Kitchenette & Locker Room with Shower
- Small break rooms for nurses behind work stations
- Wellness Rooms and art of nature scenes



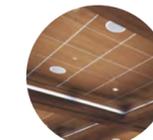
The Koicura OBGYN center provides fifteen exam rooms, including one bariatric exam room. Exam rooms are located next to the doctor offices with nurse stations nearby. The exam room is inspired from Asian home design with simple, geometric patterns with natural material selections while meeting healthcare codes.



View of Exam Room from Entrance



Exam Room Elevations



# VALLEYHILL DINING

The ValleyHill is a casual dining establishment that provides a more laid-back atmosphere with healthy meal selections and express coffee and tea. Inspired from the "hanging restaurant" in China, this casual restaurant invites patients and their families to take their minds away.



View of Entryway to Casual Restaurant



Acoustical performance materials on ceilings



Marker & Photoshop sketch of Fangweng Restaurant in Yichang, China

# LITTLE POND DAYCARE

The Little Pond is an early childhood, educational daycare center available for parents who schedule an appointment at the Koicura OBGYN center or hospital. It is meant to provide peace of mind to parents so they may focus on their health while the little ones are free to embark on a new adventure with others and enjoy fun activities.



Marker Sketch of koi taking a break



View of Daycare Indoor Classroom & Playground



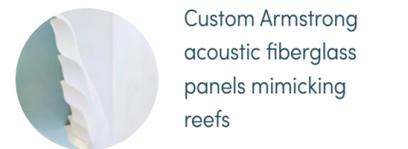
Daycare Elevation



View of Elevator Lounge towards Dining



**Combining Materials to meet Codes**  
Custom Copper Sheet Oxidized paired with Lumicor Rain Lumiclear to meet code and imitate wave effect from looking underwater.



Custom Armstrong acoustic fiberglass panels mimicking reefs



Wall Tile mimicking the turbulence below the waterfall



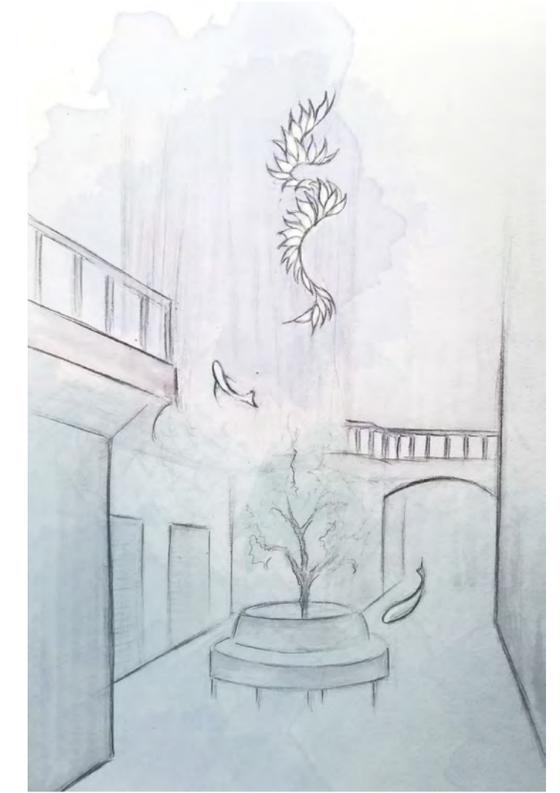
Centrally located

# KOICURA ELEVATOR

The 2nd floor houses many of the surgery rooms and specialty services for women. For many patients, this area is the beginning of a long battle, and for that reason, it is where the waterfall from the folktale is situated and where the transformation begins.

## Collaboration with Artists

Pittsburgh is known for its art community, especially the glass community. Glass Artists will be commissioned to build a waterfall, and other local artists will compete to design and create a symbolic sculpture.



Elevator Lounge Sketch Portraying Folk Tale



RHYTHM ARC  
MUSIC BAR

View of Amphitheater



Revit Rendering to Simulate Lighting

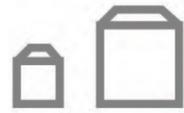
## PROJECT DESCRIPTION

To truly understand design, it must be broken down into its fundamental elements and principles of design and then rebuilt into a different form. For this project, Zaha Hadid was chosen as the designer to inspire a model that would evoke her style.

## SUMMARY



Time frame of 3 weeks from sketching to building model



Size of model must be within 1 to 3.4 cubic feet



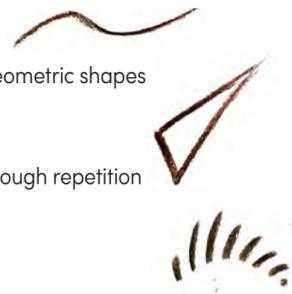
As a bonus, model can be applied into interior application

## FORM ANALYSIS

- Organic contour

- Blend of geometric shapes

- Rhythm through repetition



## SKETCHES



## MATERIAL ANALYSIS



wire & masking tape

the tape creates creases that prevent a smooth finish



polymer clay

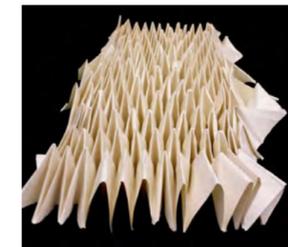
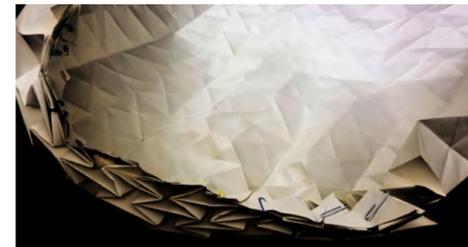
the long baking process leave little room for error



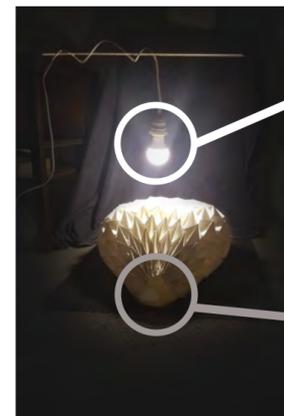
paper

the malleable paper allows for origami exploration

## PAPER FOLD PROCESS



## APPLICATION



FINAL PAPER MODEL  
FROM 4' X 4' SHEET

# IIDA

PENNSYLVANIA  
NEW JERSEY  
DELAWARE  
chapter

## PRODUCT RUNWAY



Photos Credit: Phillip William Atkins



### PROJECT DESCRIPTION

In October 2019, IIDA Product Runway showcased fashion using 80% of the sponsor's building materials based on a music video. A team of 4 graduate students and 1 professor partnered with Forms+Surfaces to create this design inspired from Taylor Swift's "Bad Blood" music video. Brunner Powder Coating fabricated the steel designs based on my templates and paper prototype.

**MATERIALS** (80%) Metal + Glue + Film  
(20%) Chain mail + Paint



#### Steel Powder Coated

primarily used for wall cladding, metal sheets were cut and formed to a belt



#### Glue

to adhere decorative films inside glass panels, white solid fabric-like glue was converted into a dress



#### Paper Prototype



#### Steel Powder Coated

metal sheets cut, formed, welded, and powder coated based on template and paper prototype



#### Printed Films

similar to transparency films with colorful designs, used inside glass panels, they were cut and linked with chain mail

### The Ice Goddess enraged with Humanity and wreaking Fire on Earth

The music video portrays betrayal and suffering that changed women into "Bad Blood." A scene of Taylor Swift wearing white winter garments reminded the team of the **polar bears endangered by global warming**. The scene progresses to Taylor Swift wreaking havoc with flames, spurring the concept of a goddess betrayed by mankind for not respecting the Earth and its creatures.



CONCEPT SKETCHES



## ART EXPLORATION

Art has a way to relax the mind and encourage exploration and expression. Here are some of my works from traditional oil painting to mixed media and ceramics.

### ***Oil Painting***

Acrylics have always been my preferred medium, but the blending benefits of oil painting started to catch my attention. After many mistakes along the way, I finally completed my first portrait in oil.



### ***Mixed Media***

Inspired from stained glass in medieval churches, this piece was assembled from found objects and thrift finds.



### ***Ceramics***

The imperfections from the uneven contour of this piece lends to a natural form. Inspired from the idea of what a dragon's egg would look like, I replicated the scales onto the shell and hid a little heart within.

