PORTFOLIO

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CONTENTS

Wildlife Resort -Thesis
9th Semester, SVCA

Bakery- Interiors
8th Semester, SVCA

R-house- Club house
Junior Architect, Firm- Studio Earth and Space

Melbourne- Housing
7th semester, SVCA

3D Printing Studio- Housing
1st semester, UIUC

Interests

Digital works, Model Making

Year- 2022, 9th Sem | **Location-** Madhya Pradesh | **Type-** Recreational | **Project-** Individual

Restaurant Plan

01 WILDLIFE RESORT

Kanha Tiger Reserve

Site Area-
15 Acres

Built up Area-
3 Acres

Landscape Area-
0.75 Acres

Circulation-
1.5 Acres

Design Brief:

Wildlife Resort is a resort for people, surrounded by combination of wilderness, serenity and comfort and appreciated by travellers from across the world.

Due to increase in population and industrialism, the forest area and the wildlife is getting affected, increasing the urge to protect their natural environment and experience flora and fauna.

The resort is an escape from urban lifestyle and a platform for wildlife photographers, journalists and researchers. Accomodating upto 100 pax- upto 25 cottages

USER GROUP	REQUIREMENT
TOURISTS, FAMILIES	To connect with the wildlife and nature, Relaxation, Safaris
JOURNALISTS, RESEARCHERS, PHOTOGRAPHERS	Space to exhibit their work, Liveable habitat for a period of time, To finish their projects/ study, etc, Safaris
STUDENTS	Educational visits- school or college students. Gain knowledge,recreation, Safaris

View of a Cottage

SITE PLAN

SITE AREA- 15 ACRES
BUILT UP AREA- 3 ACRES
LANDSCAPING AREA- 0.75 ACRES
CIRCULATION ON SITE- 15% OF SITE= 1.5 ACRES

BUILT UP AREA- 20% OF SITE
LANDSCAPING AREA- 5% OF SITE
VEGETATION ON SITE- 60% OF SITE
WATER BODIES- 15% OF SITE

- COTTAGE 1- 10 UNITS

- COTTAGE 2- 9 UNITS

- COTTAGE 3- 6 UNITS

LEGEND:
1.Reception and waiting
2.Gallery
3.Gazebos
4.Admin
5.Bird tower
6.Private water dinner
7.STP
8.Bio gas Plant
9.Generators
10.Waste segregation-32sqm
11.Laundry-65sqm
25. Cafe
12.Staff Kitchen and dining-100SQM
13.Cottage Type-1
14.Cottage Type-2
15.Cottage type-3
16.Agriculture zones
17.Catchment zones/ RWH
18.Activity trial
19.Solar power plants
20.Souvenir store
21.Trampoline Bungee Jumping
22.Gym and Indoor Games
23. Security
24. Staff/Drivers accomodation-70SQM

SCALE:
0 5 10 15

LANDSCAPING SECTION

Design Intent:
"The wildlife and it's habitat cannot speak, so we must and we will"
The thesis project is mainly focused at capturing the essence of wildlife through spatial design and incorporation of nature into the space.

Concept and Illustrations

The Design emulates independent yet communal nature of tiger & style, from vernacular architecture of Madhya Pradesh, having a first hand experience of ecosystem that exists in the wild, being a hub for nature lovers and platform for wildlife enthusiasts and a sustainable project that hopes to create an eco-system.

Walkways above ground connecting 2 trees

Use of Pile foundation

Deck overlooking forest

Organic strutures- Pavilion

Tiger Paw concept for Reception

Trenches- barrier preventing animals from entering into site

Yoga Cone concept (6m ht)

Private dinner on waterbody

Walkways

Small bridges over streams

Drains to prevent soil erosion/ diverting to streams

Bird towers surrounded by aromatic/ attractive trees

Site and Contour Analysis

Vehicles stopped at the entry of Kuchha road:
For Less disturbance in and around the site
To create a special experience by traveling through jeeps or e-vehicles

River streams act as natural barrier to prevent any wild animals from trespassing into the site

CONTOURS-
-Major catchment areas on site, Lowest and highest contour levels. These helped in detecting contructable and non-constructable areas on site

COTTAGE: TYPE 2

Cottage Area- 230sqm
Number of Units on site-6
Orientation varies according to the layout on site

| Plan

The three types of cottages have been divded according to the number of people it can accomodate and the ammenities each can provide.

Cottages have been planned on 2 different contours to create visual and functional aesthetics

| Section AA'

| Section BB'

Year- 2021, 8th Sem | **Location-** Siddipet | **Type-** Interiors | **Project-** Individual

| Plan

02 BAKERY

Interior project

Store Area:
430 sq.m

Design Brief:

The design challenge is to create a unique space in the mall, I.e, a "sweet tooth hub" and will meet the target group, I.e ranging from cake and tea/coffee lovers to dessert lovers.

The space should be a creative blend of both cafe and bakery without losing the essence of a bakery. The seating would be designed to occupy an average of 25 -30 individuals.

Design Style:

Neoclassical furniture is simple and symmetrical. It features an exposed wood or metal structure that outlines the shape of the piece.

Minimalist interior design involves using the bare essentials to create a simple and uncluttered space.

|Wall Elevation of Seating

COLOR

Sage Green- giving a sense of serenity
Pretty much any shade of green will leave you feeling calm

Yellow- soothing in nature, giving a feel of warm rays of sunshine

Grey- Can actually be very calming and relaxing. It's a perfect neutral color, which means it works well with pretty much any color or palette.

TEXTURE

Smooth Textures are often to be meant to reduce stress like velvet fabric, suede leather.

Smooth Textures are often to be meant to reduce stress

Rough textures decrease patience and cause irritability

"Desserts" is just "Stressed" spelled backwards

DESSERTS →

← STRESSED

...providing a stress free bakery environment

LIGHTING

Color temperature works differently – "warmer" colors such as red, orange, and yellow have lower color temperatures.

correlated low-temperature, "warmer" light colors with deeper relaxation.

FURNITURE

Minimalistic furniture improves calmness all over spaces

Comfortable and soft seating increase patience level of Customers

Including Indoor plants also reduces stress levels

Year- 2021 | **Location-** Phulmamdi, Telangana | **Project-** Recreational | **Project-** Firm

Firm name: Studio Earth and Space, Hyderabad.
Supervisor/Principal Architect: Ar. Sravanthi Gumma
Worked on: Designing of Restaurant design and layouts for it. Sections and section renders of site, Site design adjustments. Wall elevation and sections.

|SITE PLAN

LEGEND:

1. Entrance- 750 sqft
2. Banquet Hall- 2100 sqft
3. Outdoor Lawn- 1629 sqft
4. Washrooms- 280 sqft
5. Reception- 590 sqft
6. Vestibule- 720 sqft
7. Swimming Pool- 1575 sqft
8. Corridor to Mezzanine- 550 sqft
9. Pool deck- 950 sqft
10. Restaurant- 620 sqft
11. Ramp- 750 sqft
12. Lawn- 2500 sqft

03 R-HOUSE

Club house

Total Site Area-
0.8 Acre

Built up Area-
0.3 Acre

Design Brief:
R-House is a club house surrounded by farmhouse lands, greenery and empty lands.

Design a space that can be used for leisure activities, entertainment purposes and conduct events.

Design Intent:
The main intent was to minimize the number of walls and create a free flowing mass.

The design is perfectly camouflaged in the site. Play of mass, light and shadows is seen throught.

To make it a recreational space as an escape from the city.

|View of the restaurant

Restaurant Block:

The deisgn aims at simplicity and modern construction processes and gives a sense of openness around it.

The club house features mainly of recreational spaces that a group of people on the outskirts of the city can use it as a mode of escape.

|Block section

The major material around which the design is based is concrete. Form finished concrete style is inspired from Tadao Ando's design style.

The sparking essence of the design is that it is purely site specific. It is surrounded by dense vegetation.
The site is presently under construction.
Cast in-situ methos is being implemented on site.

Form Finished Concrete- design style (Images of site under construction)

Laying Foundation

Restaurant Block

Pool and recreational area

|Site section

Year- 2021, 7th Sem | **Location-** Melbourne | **Type-** Housing | **Project-** Team project

Cluster-4 Plan

04 MELBORNE AFFORDABLE HOUSING

Community Housing Project

Total Site Area:
44 Acres

Built up Area:
31.1 Acres

Recreational Area:
4.5 Acres

Future expansion area:
1 Acre

Design Brief:

Melbourne is the capital city of Victoria, Australia, and holds the title of the country's fastest-growing city.

This dramatic increase in demand, combined with only incremental increases in supply, has resulted in a massive jump in housing prices, with families being hit the hardest by the lack of affordable housing in the city.

Design solutions to Melbourne's affordable housing problem that are flexible enough to accommodate a variety of inhabitants, from single professionals to couples and families.

SITE PLAN

SPACE DIVISION PERCENTAGES:

Built up area: 71.1%

Road Area: 20%

Commercial Area: 15%

Residential Area: 42.2%

Recreational Area: 10.2%

Future Expansion Area: 1%

Semi-Detatched Houses: 107x2 = 214 Units

Terrace Houses: 126 Units

Town Houses: 115x2= 230 Units

Concept and Illustrations

"A community that gives new meaning to affordability with a focus on cognitive impact and leaving an endurable footprint with an end goal of spiritual enhancement and creating an ecosystem of it's own..."

Street view for Visual Connectivity, Barrier and boundary free community

Water Retention- Along Pathway and parks to recycle and resuse water

Creating visual barriers and privacy in semi-detatched houses

Farmers Market- Cultivating their own produce and utilizing their resources

AFFORDABILITY

...sense of belonging

...ecological balance

ADAPTABILITY

Town Houses Cluster View with parking and communal spaces that are surrounded by houses around

Passive Cooling Technique, Natural ventilation and Rain water harvesting

Amphitheatre- An active space for conducting events

Water Retention pits in the recreational areas of site

| Landscape section of Common gathering spaces in Cluster-1

Cluster-1

Semi-detatched houses:

Green spaces with benefits like safety, security, social cohesion, /healthy environment benefit, the quality of life and well-being, thus leading to a sustainable community. (sound mind and sound body)

Sloped Tile Roofs for snow protection

Floor plans with proper circulation

Visual plant wall barrier for privacy in Semi Detatched houses.

First Floor Plan

Ground Floor Plan

Year- 2023, Fall Sem | **Location-** Chicago | **Type-** Housing | **Project-** Individual

First Floor Plan

05 3D Print + Metal- Unit

Detail and Fabrication Studio (3D Printing)

Total Site Area:
1225 sqft

Built up Area:
1225 sqft

Residential Area:
840 sqft

Common area:
385 sqft

Design Brief:

Project proposals suggests new forms of accessible and collective living and gathering as well as access to basic health services for for a mixed-use (multi-family residential & commercial/health) building

Project looks at additive manufacturing's use in manufacturing architectural components such as structural connections and door and window details.

Elevation Perspective in the style of Object Building Image

Project Development

Project looks at additive manufacturing's use in manufacturing architectural components such as structural connections and door and window details.

The geometry of Sierpinski's Triangle helps in creating a structurally stable configuration that aids in even distribution of loads within a structure.

First Project

Project 2 draws inspiration from the Formabesta's ceramic and explores the enigmatic and distinctive aspects of the artist.

Second Project

Joineries are printed out of Fiber Reinforced Polymer while steel pipes rest on the 3D printed Rubber concrete panels.
The whole structure by it's core- Shinbashira technique.
The pipe thickness has been meticulously calculated and designed to withstand the forces at each joint.

Joinery Details

Final Project

Printed in Metal, the connections assemble standard steel pipes at custom angles to produce three related yet different building masses that'd function in any urban setting and also as an individual unit.

The building is clad in dark rubber shingles to unite the 3 building masses into a single whole, punctuated by the 3d printed components

Section Perspective

Object Building Image

06

SKETCHES

|Mandala Artwork. Frame size- 90cm x 60cm. Time taken- 60 hours

PHOTOGRAPHY

07
Graphic Design

MODEL WORKSHOP

08
Models

THANK YOU

for your time