

Architecture Portfolio

Saloni Modi



Selected Works



Hi !! I'm **SALONI MODI**

Blending Tradition and Technology

Registered Architect | Design Thinker | Sustainable and Parametric Design Enthusiast

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Registered Architect with dual master's degree from USA in Architecture specializing in Historic Preservation and Project Management. I'm driven by design that challenges convention - merging sustainability, heritage, and parametric experimentation to create meaningful spatial experiences. Currently expanding my proficiency in BIM and computational design, I explore contextual responses that are conceptually strong and visually expressive.

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This is a booklet of selected works from
academic (Bachelors and Masters) and
professional experience (including freelance)
throughout 2014 to 2025.



Courtyard as Public park

S1 | BOWIE CULINARY INSTITUTE

A Sustainable Revival

Project type: Academic Project
Location: Bryan, TX
Year: 2019 (M.Arch Studio I)
Softwares: AutoCAD, Google Sketchup, Adobe Illustrator

The Bowie Culinary Institute is an architectural design endeavor that seeks to breathe new life into an abandoned school in the heart of Texas. This project is a harmonious blend of the past and the future, meticulously designed to transform a historical site into a self-sustainable culinary institute that also acts as a vibrant hub for the community. This ambitious undertaking goes beyond just the revival of an old structure; it envisions a space which addresses the contemporary need for sustainability, comfort, and community engagement.

Historical Preservation and Architectural Nostalgia

The architectural design of this project is rooted in the idea of preserving the historical character of the abandoned school while simultaneously infusing it with modern functionality. A key aspect of this preservation is the iconic arched hallway, which stands as a symbolic nod to the past. The arched hallway will be meticulously restored and integrated into the new design, maintaining the visual and historical integrity of the space.

A Sustainable Culinary Institute

The institute will offer a comprehensive culinary program, complete with state-of-the-art kitchen facilities, classrooms, and practical training spaces. Within the culinary institute, the design includes a student-run fine dining restaurant, a café, and a bakery, all of which are geared towards sustainability. Rooftop garden and Solar panels are few other self-sustainability initiatives. These initiatives employed in the design of the culinary institute sets an example for sustainability in the community.

Connection with the Community through Green Space

The revitalized school building serves as a focal point for community engagement. The design incorporates a public park space for the community to gather, relax, and enjoy nature within a bustling urban environment and connect with their neighbors, fostering a sense of belonging and community cohesion.

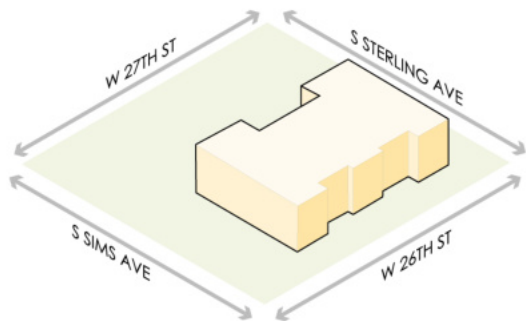
Thermal Comfort Through Architectural Design

A crucial element of the architectural design is to ensure the thermal comfort of the institute's users. The stilted design of the building on the perforated brick wall facade for the south wing plays a pivotal role in this aspect. Elevated structure allows air to circulate freely which helps maintain a comfortable temperature. This natural cooling is particularly valuable during hot Texan summers, reducing the need for energy-intensive air conditioning.

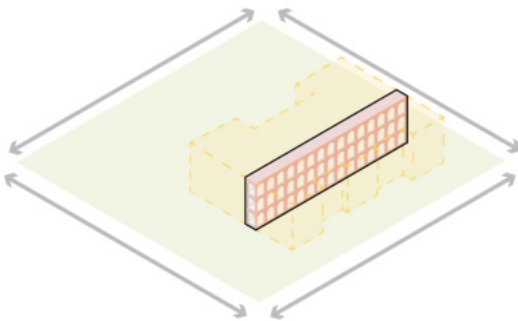
The Bowie Culinary Institute Project breathes new life into the past while setting a positive and eco-conscious example for the future.



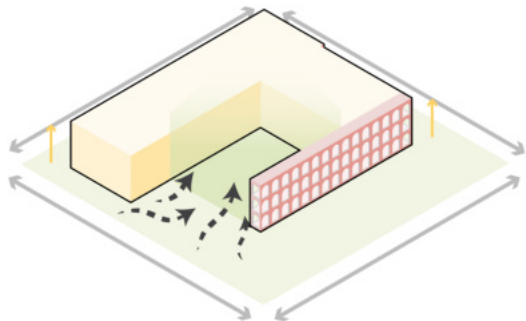
Site plan - Part of Bryan, TX



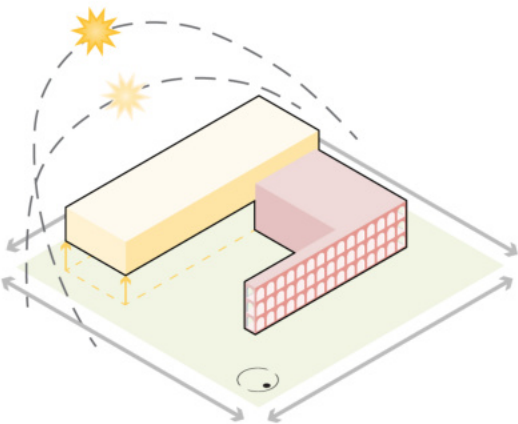
Existing building mass
Bowie school is an abandoned three-floored structure.



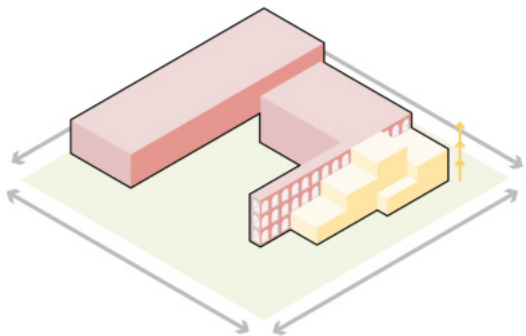
Restoring part of building mass
Old structure is demolished while the arched hallway is restored.



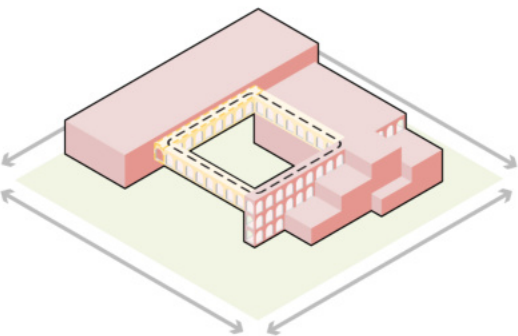
Creating open courtyard
Connection with the community is promoted through this green openspace for public use.



Creating shaded spaces
Still space offers shadow from high summer sun and welcomes the warm winter sunlight.



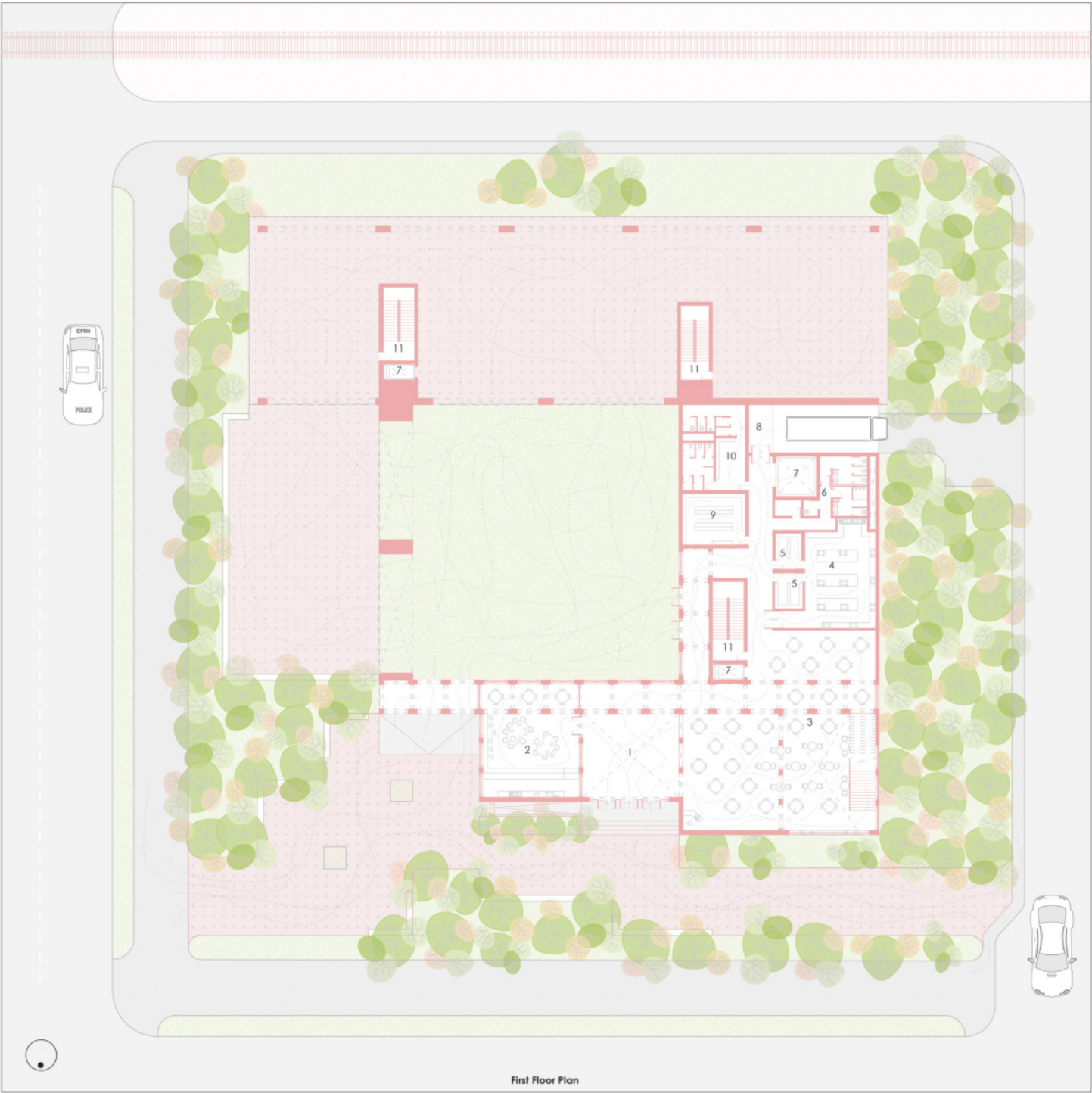
Creating semi public spaces
Setback balconies provides comfortable outdoor space, adding to the semi public spaces.

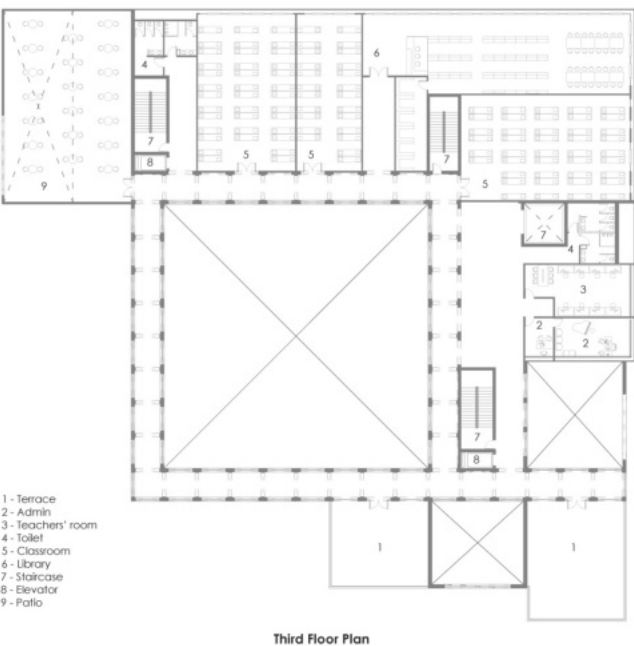
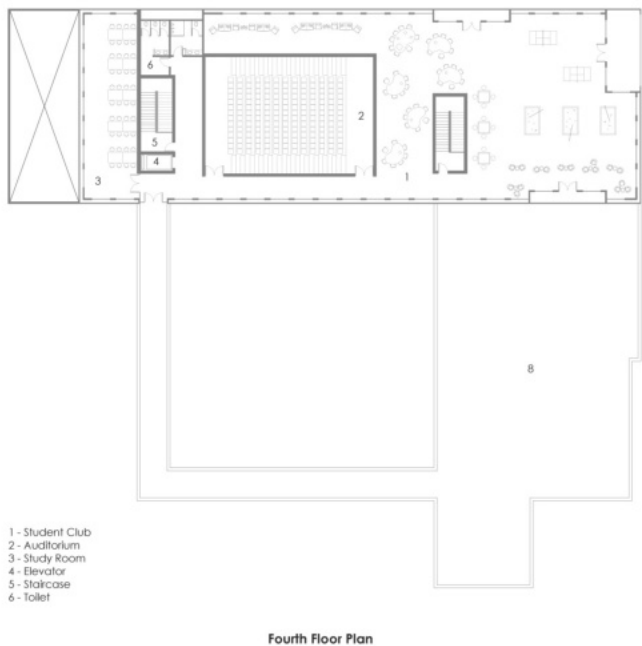
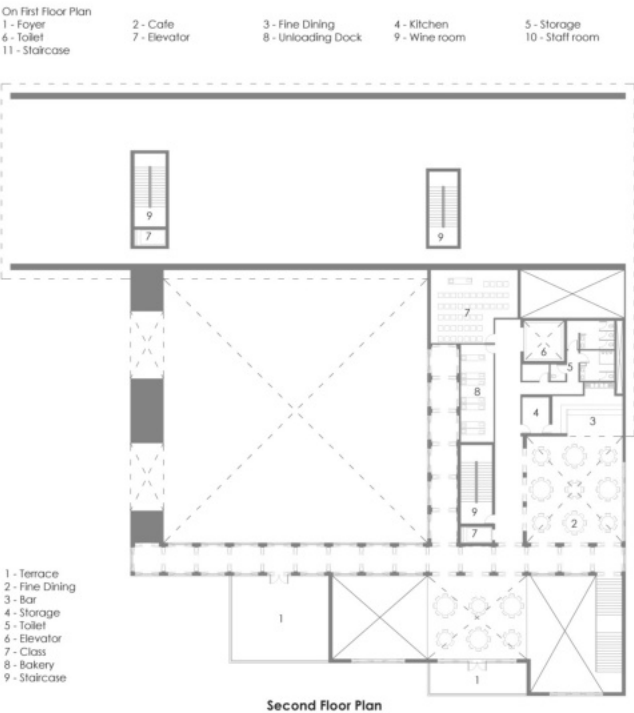
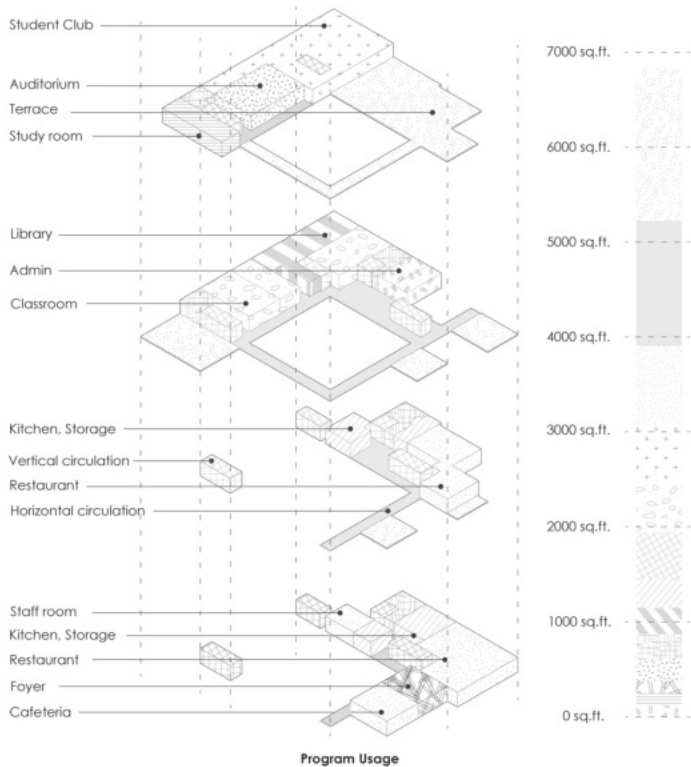


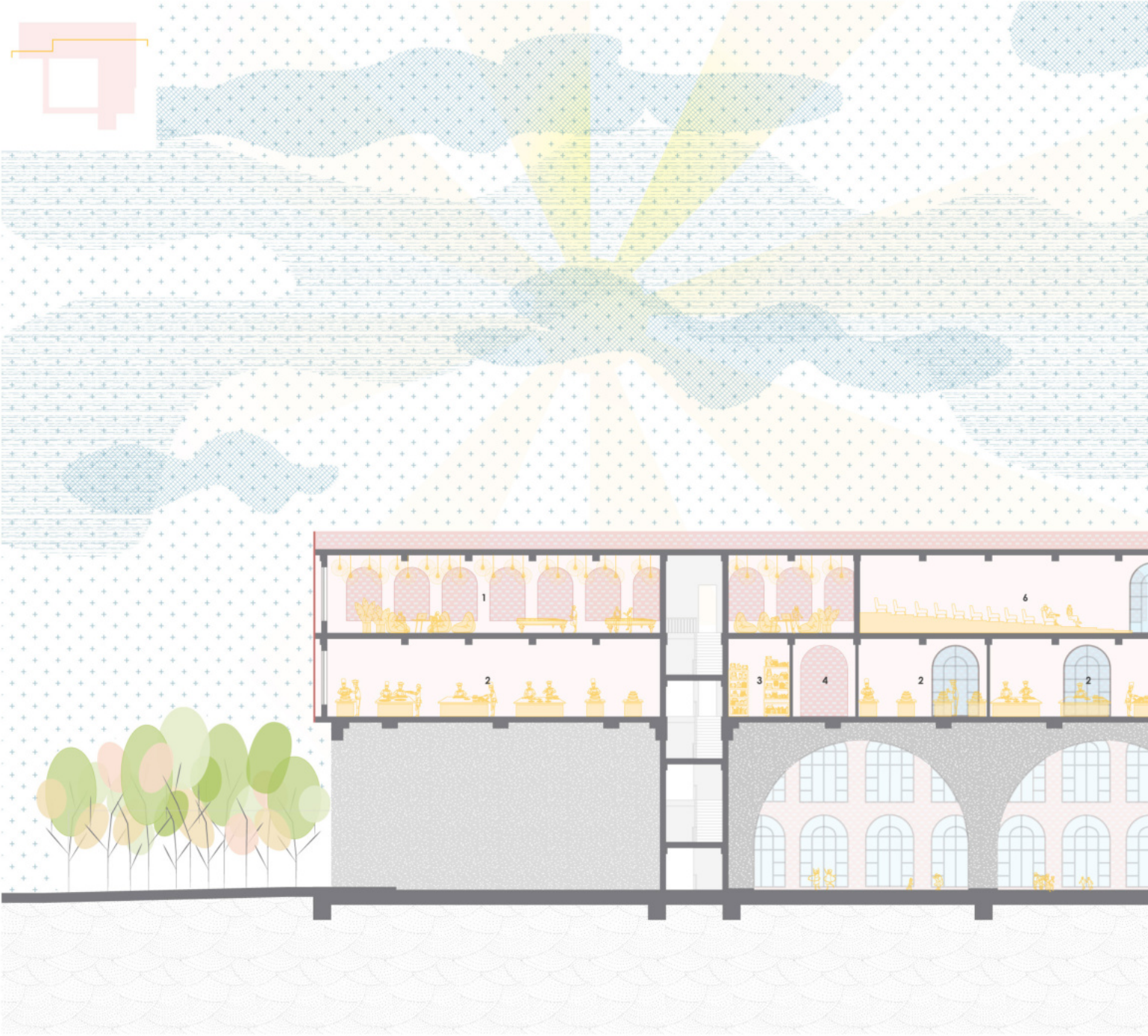
Forming arcade passageway
Covered walkway provides easy access and a connection between inside and outside.



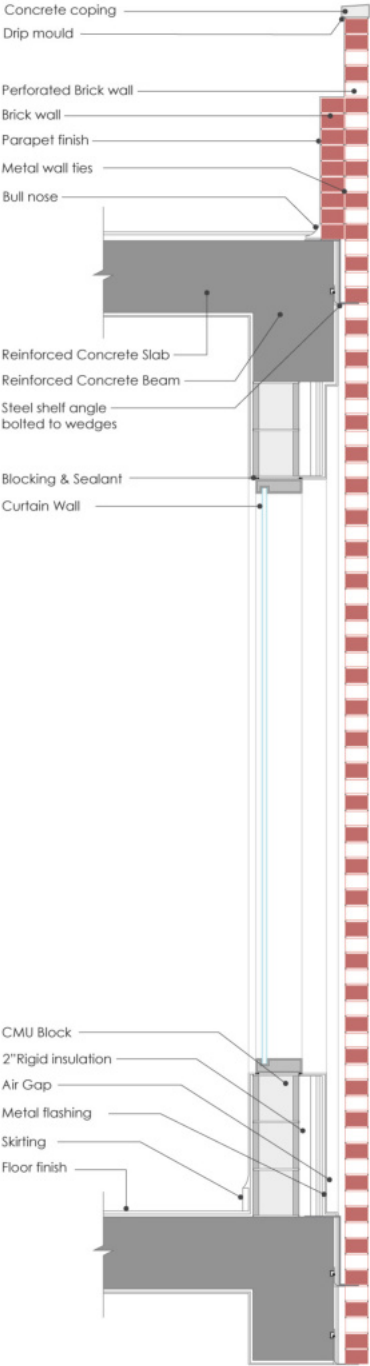
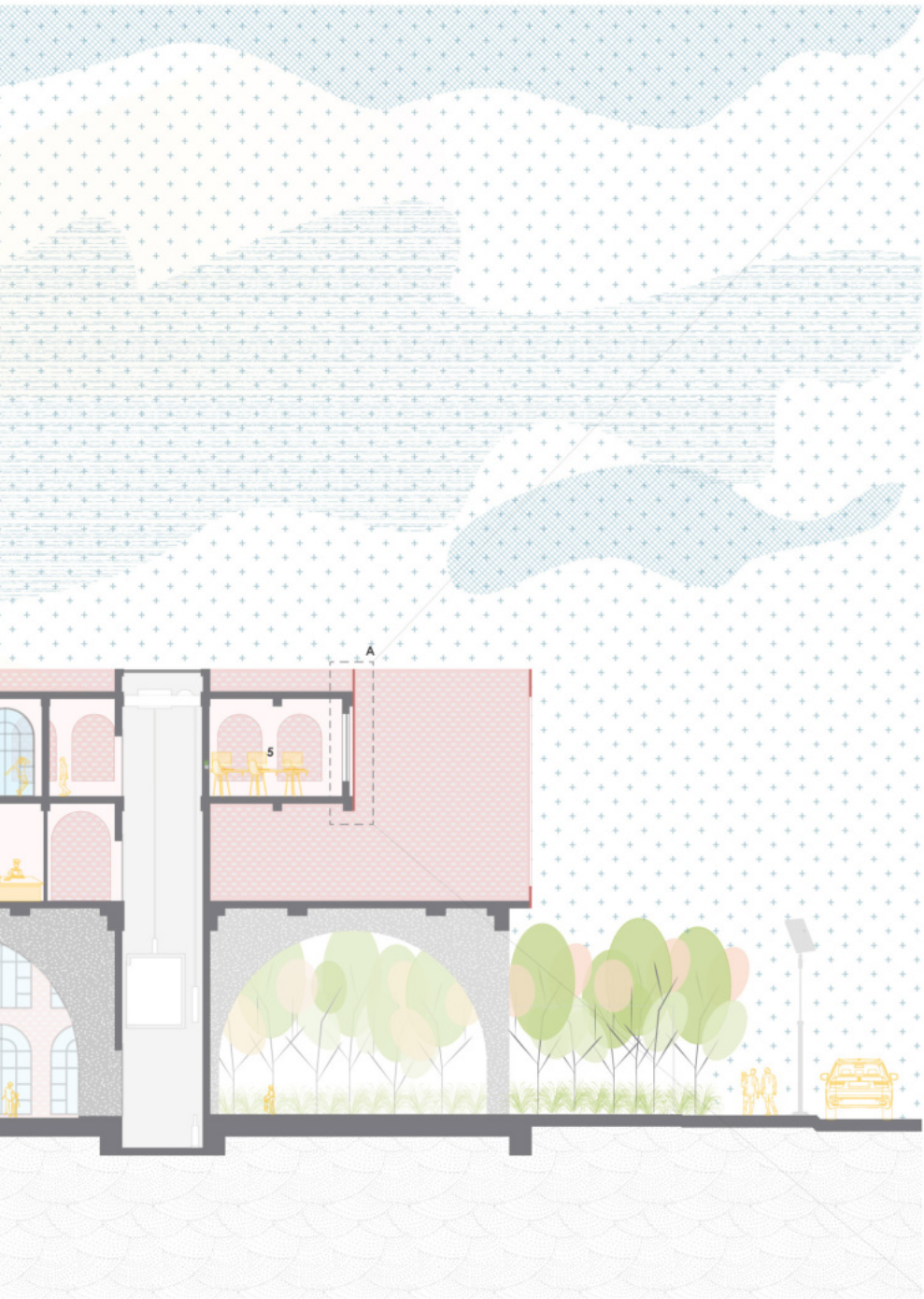
Axonometric view of Bowie Culinary School



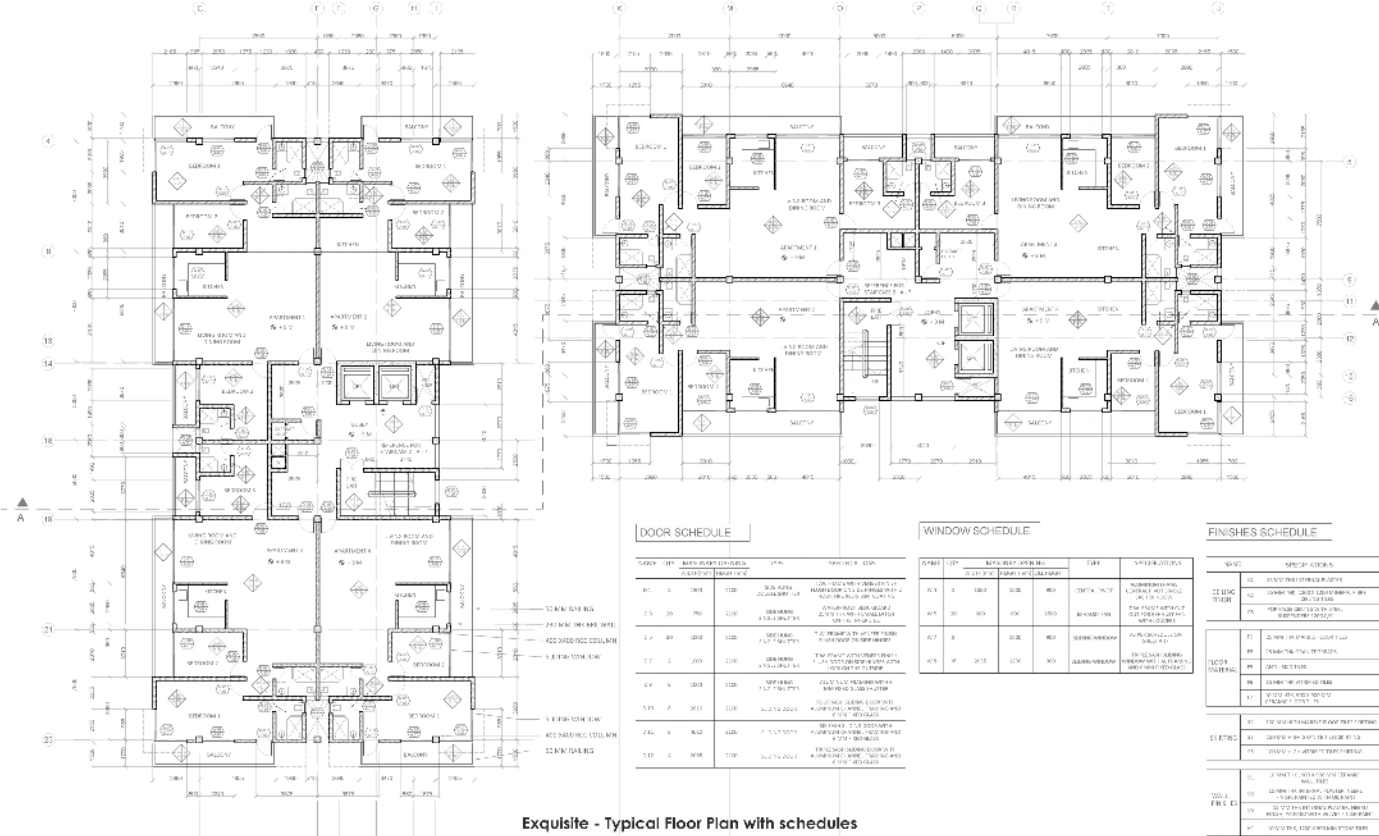




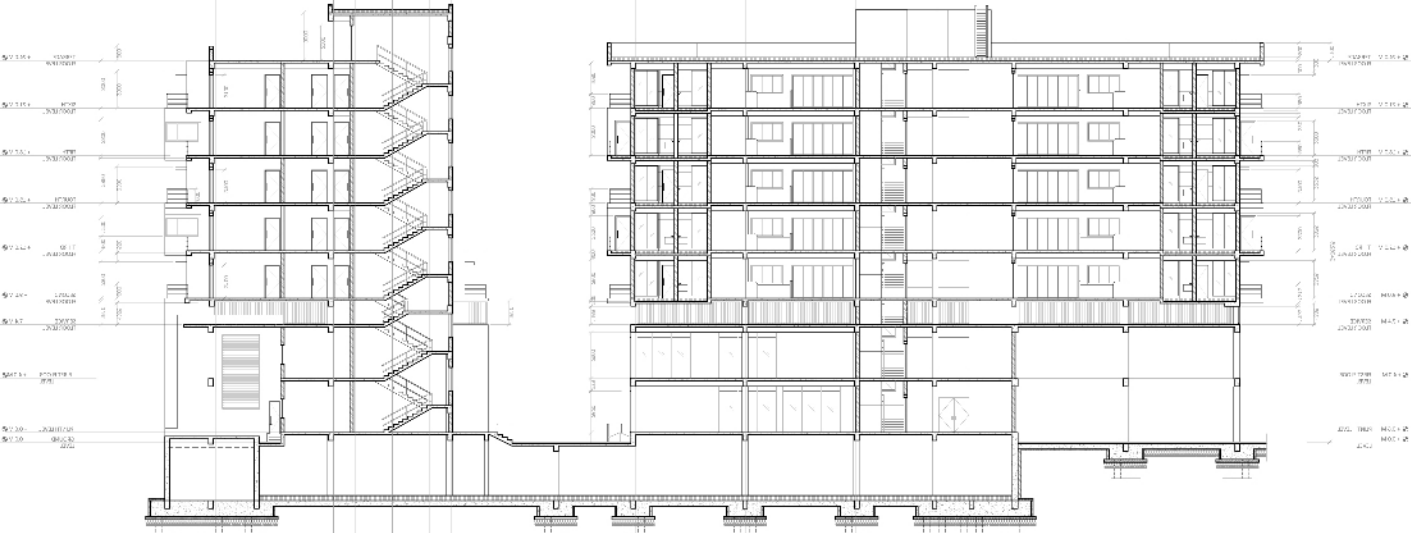
1 - Student Club 2 - Classroom 3 - Library 4 - Hallway 5 - Storage
Section through the still



Wall Section 'A'



Exquisite - Typical Floor Plan with schedules



Exquisite - Section AA'

E1 | Independent Practice

Remote

Position: Architect and
Academic mentor
Tenure: Oct 2021 - Present

Job Type: Project-based

About Independent Practice

My freelancing journey has allowed me to engage with architecture beyond conventional office settings. As a freelance architect, I have undertaken diverse projects ranging from detailed residential layouts to conceptual proposals. I designed and managed small- to medium scale projects. My role included tasks like conducting site analysis, developing design concepts, preparing detailed drawings for builders, investors, regulatory bodies, and sales.

Parallel to design practice, as an academic mentor to architecture students, I guided undergraduate students in design studio projects and provided critiques to enhance conceptual clarity and presentation quality. I have assisted students with visual articulation of architectural ideas.

Exquisite and my responsibilities

Exquisite is a contemporary high-rise residential tower. My responsibilities : Generating construction drawings with schedules and indexes, as well as overseeing tasks such as room numbering verification and dimension control.

La Haute and my responsibilities

La Haute is a residential tower in Mumbai, which was initiated by a real estate company dedicated to establishing elevated communities. The project encompasses over 180 apartments with one, two, and three bedrooms across more than 20 floors. My responsibilities : Detailing of unit specifications, conceptual planning, creating plan and elevation illustration for investor meeting.

Magnifique and my responsibilities

Magnifique is an eight-story commercial structure with ground-level retail, space and offices on floors above. My responsibilities : 3D modeling and external render views to specifically highlight the facade of Magnifique.

Hari Echa and my responsibilities

Hari Echa is a residential project in Dombivli. My responsibilities : Create municipal drawings with built-up diagram and calculation. Produce 3d plans for sales brochure.

Resourcing the resources Manifesto and my responsibilities

The manifesto, Resourcing the resources, is a proposal for the city of Ulhasnagar in the North of Mumbai. This manifesto was prepared for an academic competition. My responsibilities : Mentor the students to brainstorm ideas for proposal, make visual graphics of the proposed idea and compose a manifesto book.

Learning Outcomes

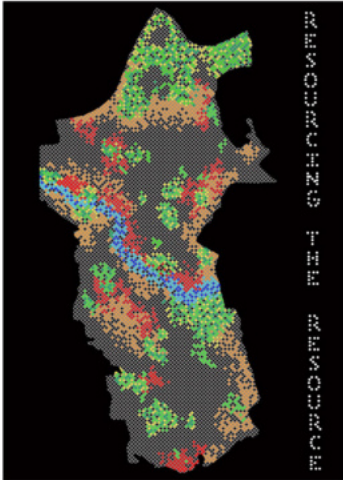
- Renders and illustrations
- Floor plans
- Programmatic layout
- Construction drawings
- Municipal drawings
- Exterior elevation and details
- Conceptual 3D models
- Material Study and percentages
- Site mapping and inspection
- Schedules and Unit details



La Haute - Rendered Section elevation



La Haute - Rendered Elevation



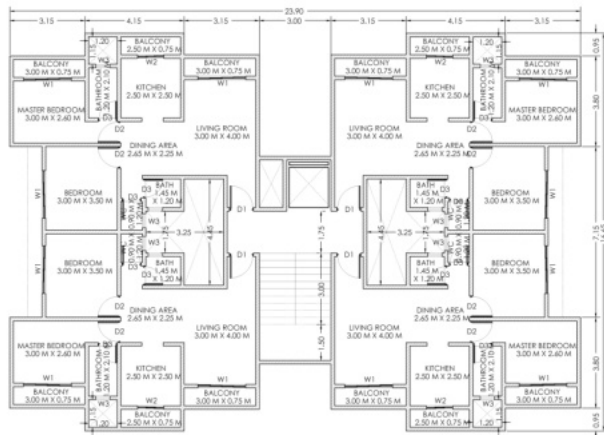
Visual graphics for the manifesto



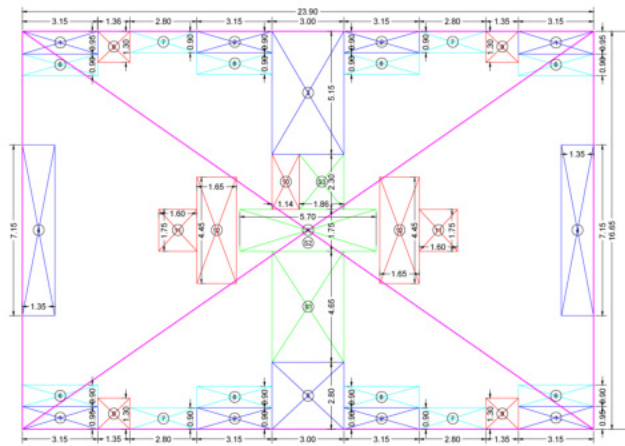
Magnifique - 3d modelling



Magnifique - 3d modelling



Hari Echa - Munciplan plan



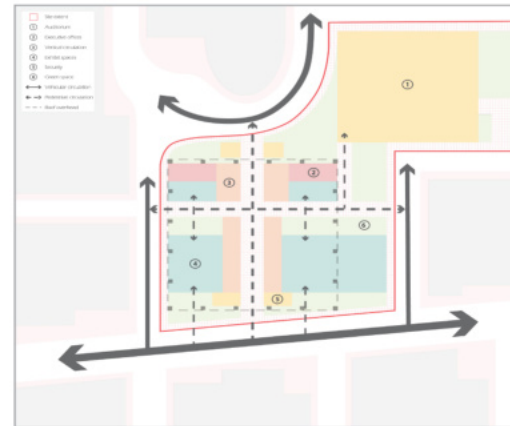
Hari Echa - Built up area diagram

BUILT-UP AREA CALCULATIONS				
TYPICAL FLOOR PLAN (1ST TO 5TH)				
A	23.9M	X	16.65M	
TOTAL ADDITION			1 NO.	= 398 M ²
				= 398 M ²
DEDUCTIONS				
1	3.15M	X	0.95M	4 NOS. = 11.97 M ²
2	3.15M	X	0.90M	4 NOS. = 11.34 M ²
3	5.15M	X	3.00M	1 NO. = 15.45 M ²
4	1.35M	X	7.15M	2 NOS. = 19.31 M ²
5	3.00M	X	2.80M	1 NO. = 8.4 M ²
6	3.15M	X	0.90M	4 NOS. = 11.34 M ²
7	2.80M	X	0.90M	4 NOS. = 10.08 M ²
8	3.15M	X	0.90M	4 NOS. = 11.34 M ²
9	1.35M	X	1.30M	4 NOS. = 7.02 M ²
10	1.14M	X	2.30M	1 NO. = 2.63 M ²
11	1.60M	X	1.75M	2 NOS. = 5.6 M ²
12	1.65M	X	4.45M	2 NOS. = 14.69 M ²
TOTAL DEDUCTION				= 129.17 M ²
TOTAL BUILT-UP AREA				= 268.83 M ²
STAIRCASE, PASSAGE & LIFT AREA				
S1	3.00M	X	4.65M	1 NO. = 13.95 M ²
S2	5.70M	X	1.75M	1 NO. = 9.98 M ²
S3	1.86M	X	2.30M	1 NO. = 4.27 M ²
TOTAL STAIRCASE, PASSAGE & LIFT AREA				= 28.2 M ²
NET BUILT-UP AREA				= 240.63 M ²

Hari Echa - Built up area calculations



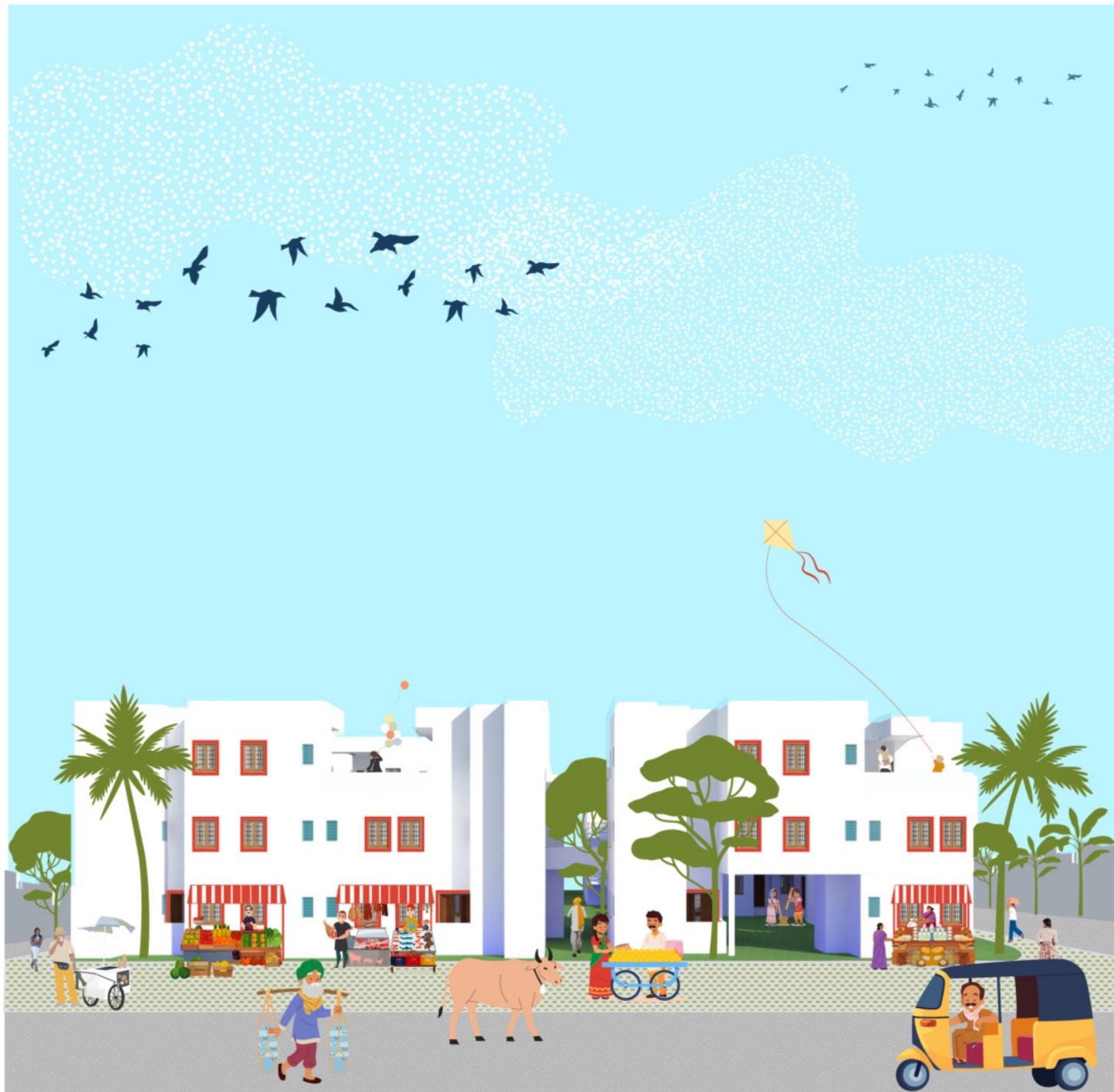
Savitribai Cultural Center - Site plan



Savitribai Cultural Center - Programmatic layout



Vaibhav Laxmi - Design Axonometric



Market Street Elevation

S2

APNA GHAR (OUR HOME)

Enhanced Living

Project type: Academic Project**Location:** Ulhasnagar, MH, India**Year:** 2016 (B.Arch Studio VIII)**Softwares:** AutoCAD, Sketchup, Lumion, Adobe Illustrator

Apna Ghar is an innovative architectural design project situated in the peripheries of Mumbai, India, catering specifically to immigrants who have migrated to the city in search of employment opportunities. This housing project not only addresses the essential need for shelter but also aims to create a sense of nostalgia and community by integrating unique design elements. The project draws inspiration from principles laid out in the Rajiv Awas Yojana Scheme. This government initiative, launched to address the challenges of slum dwellers and promote inclusive urban development, serves as a guiding framework for Apna Ghar. The project's focus extends beyond mere accommodation; it endeavors to enhance the quality of life for immigrants by providing access to education, healthcare, and fostering a strong sense of community. The location of Apna Ghar in the peripheries of Mumbai is deliberate, aiming to strike a balance between accessibility and affordability. Immigrants benefit from lower rents, making their transition to urban life more manageable. The proximity to the city center allows for easy commuting, ensuring that residents can capitalize on employment while still enjoying the tranquility and sense of community in the peripheries.

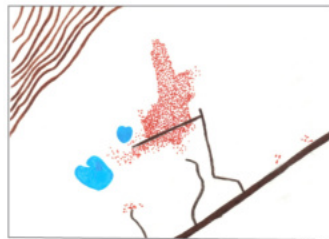
Rajiv Awas Yojana Scheme

The Rajiv Awas Yojana Scheme was introduced to address the pressing issues of slum dwellers and the urban poor. Launched with the vision of creating a slum-free India, the scheme emphasizes inclusive urban development, affordable housing, and the provision of basic amenities.

Improved Living conditions

Apna Ghar goes beyond being a mere residential complex; it is a holistic approach to improving the living conditions of immigrants. Educational and healthcare institutions are seamlessly integrated into the project, ensuring easy access for residents. A community center acts as a hub for various skill development programs, language classes, and cultural activities, promoting both personal and professional growth. Additionally, a healthcare facility within the premises offers essential medical services, contributing to the overall well-being of the residents.

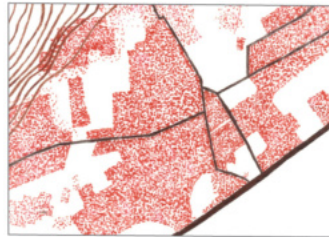
In the vibrant tapestry of Mumbai's peripheries, Apna Ghar emerges not only as a shelter for immigrants but as a cultural haven. The project's dedication to providing a holistic living experience goes beyond the physical structures, weaving a narrative of shared heritage and collective growth. The streets lined with echoes of traditional marketplaces become not just thoroughfares but communal spaces where stories are exchanged, bonds are forged, and a sense of belonging is nurtured.



2004



2008



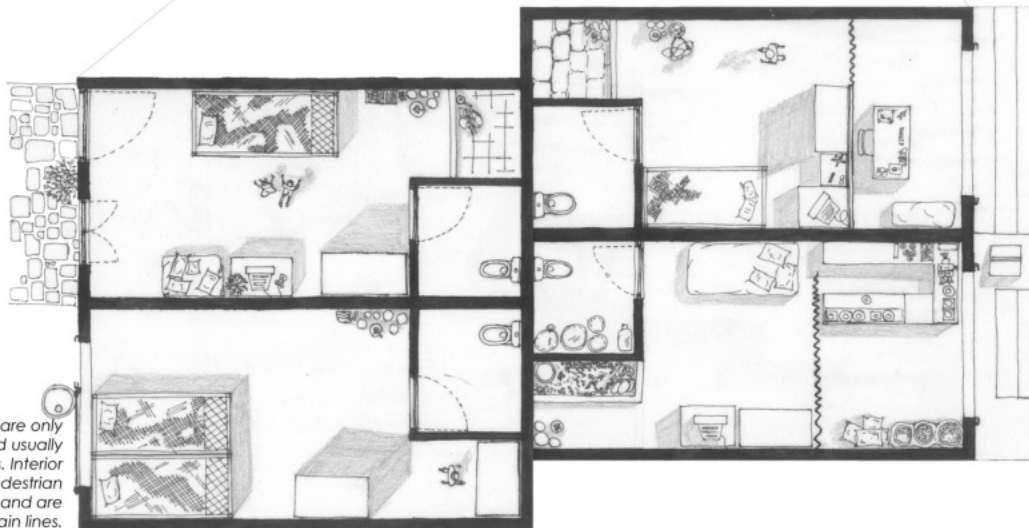
2012

Site condition through the years

■ - Settlement ■ - Water body — - Road



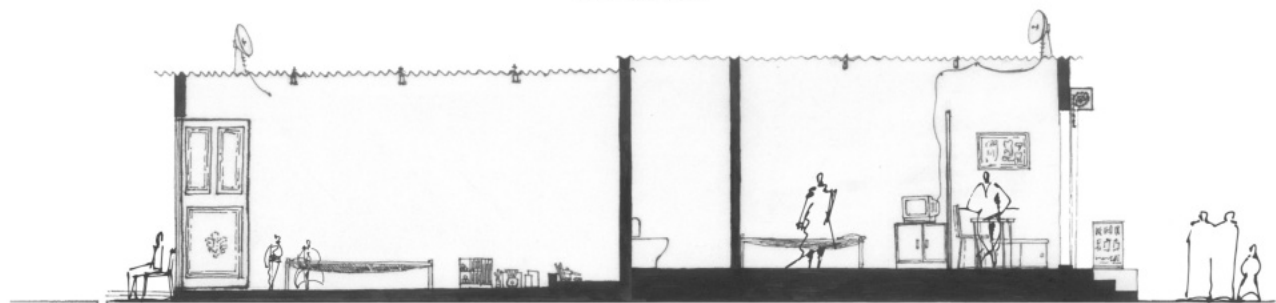
Site analysis - Usage



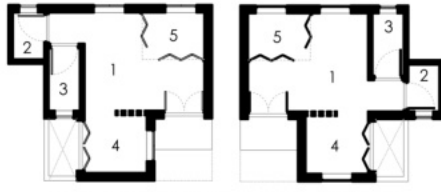
Unit type A are only residential units and usually face interior streets. Interior streets are for pedestrian movement alone and are seen to have open drain lines.

Unit type B are residential units with small informal shops. These units line the main streets. Main streets are not for vehicular movement alone but also accommodates various social, economic and domestic activities.

Plan of the units



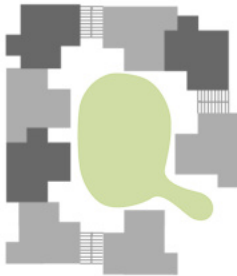
Section through the units



1 - Living - cum - bed space 2 - Toilet 3 - Bathroom
4 - Kitchen 5 - Flexible commercial space

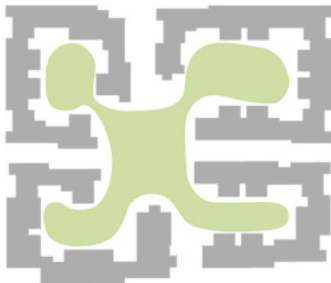
Unit type A and B

Under the Rajiv Awas Yojana scheme, every housing unit must be of 40 sq.m. with essential sanitary needs such as toilet and bathroom. There are two types of studio units with flexible area. The units on ground floor uses this flexible area as shops or commercial activity. These informal commercial activities such as papad making, box making, basket making, carpentry, bead jewelry making, etc. will provide a means of earning a livelihood with minimum investment.



Cluster

Unit type A and B are clustered by interlocking multiple units together. Interlocking of units save resources like materials, space, and time. This organization envelopes openspace in the centre. This openspace serves as semi-public space where neighbors meet, children play and The cluster also accomodate vertical and horizontal circulation.

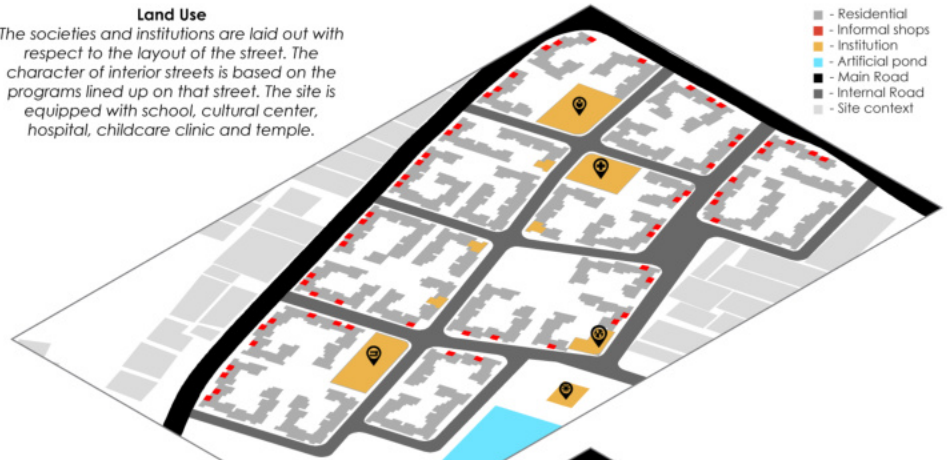


Society

An organization of two or more cluster form a society. Each society has a central openspace that is linked to the smaller openspace formed by the cluster, hence showcasing a heirarchy of openspaces. These openspaces regulates the nature of privacy from public to private (Central openspace being public, the cluster openspace as semi public, the hallways being semi private and units as private.)

Land Use

The societies and institutions are laid out with respect to the layout of the street. The character of interior streets is based on the programs lined up on that street. The site is equipped with school, cultural center, hospital, childcare clinic and temple.



- - Residential
- - Informal shops
- - Institution
- - Artificial pond
- - Main Road
- - Internal Road
- - Site context

Contagious Openspace

53.55% of the total site area is left as openspace. The openspace in the society area is semi - permeable allowing for the rainwater to fill the artificial pond. Other openspaces account for the sports ground and play areas.

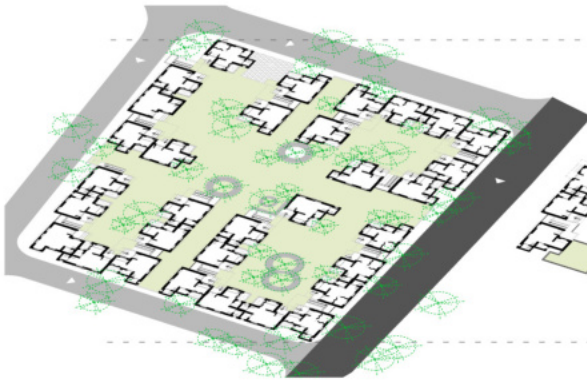


- - Built
- - Openspace

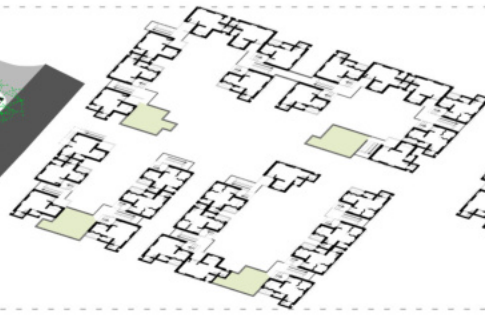
Masterplan Layout

The project's commitment to education, healthcare, and environmental responsibility is mirrored in this masterplan that creates vibrant, inclusive communities.

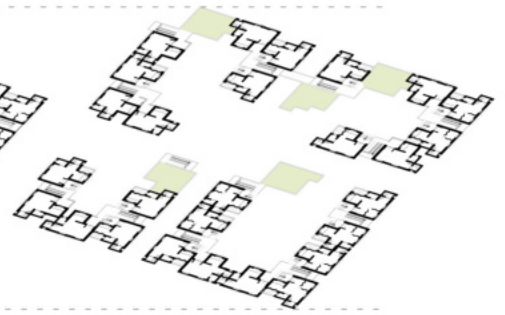




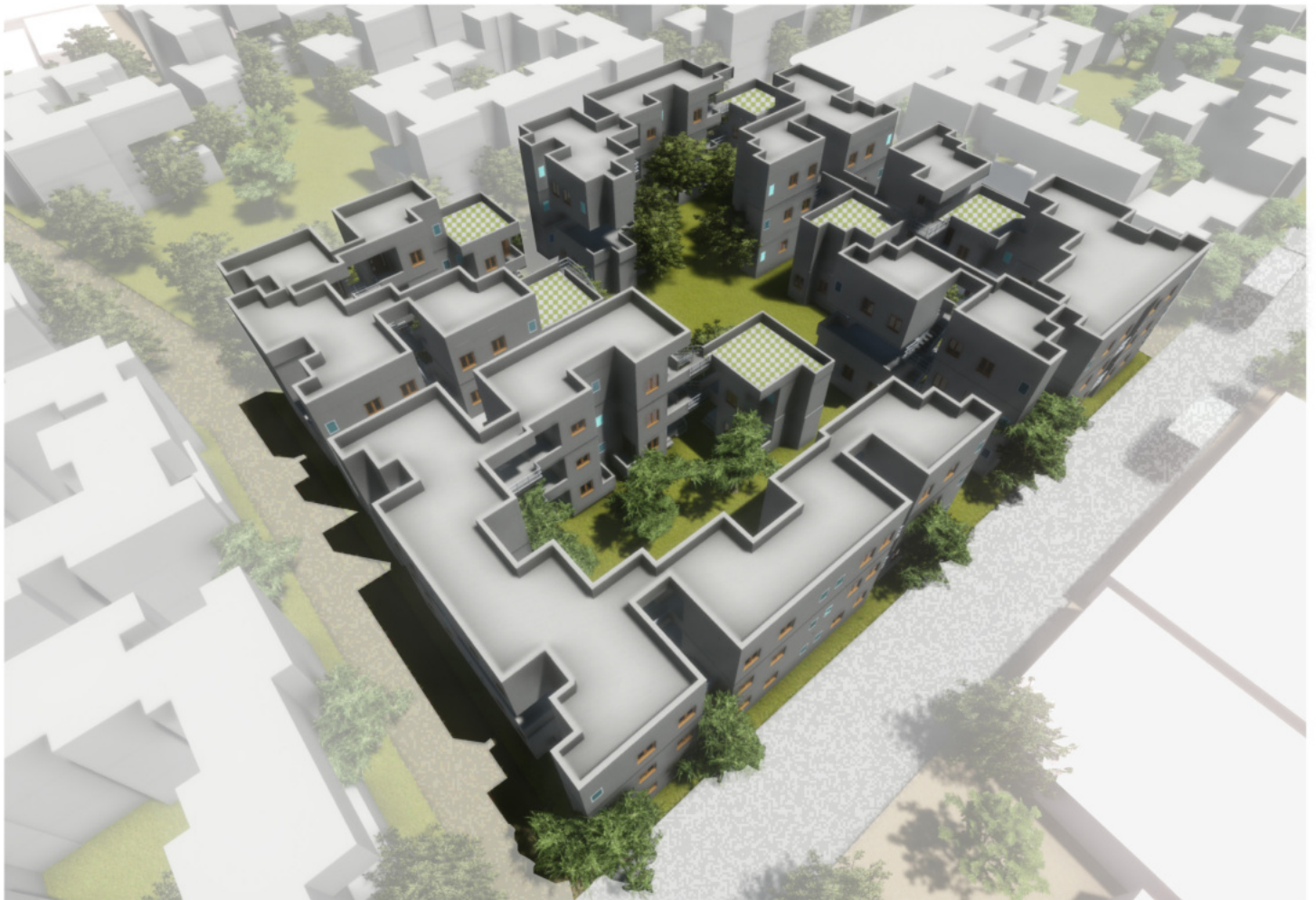
Ground Floor Plan



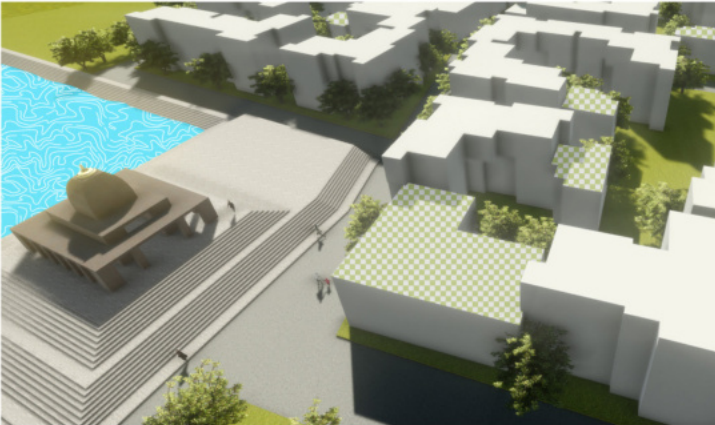
First Floor Plan



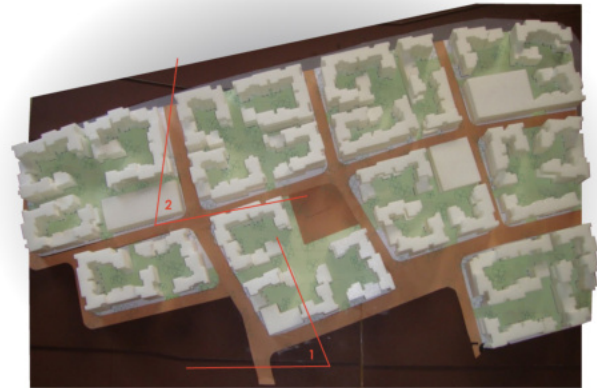
Second Floor Plan



View of the society



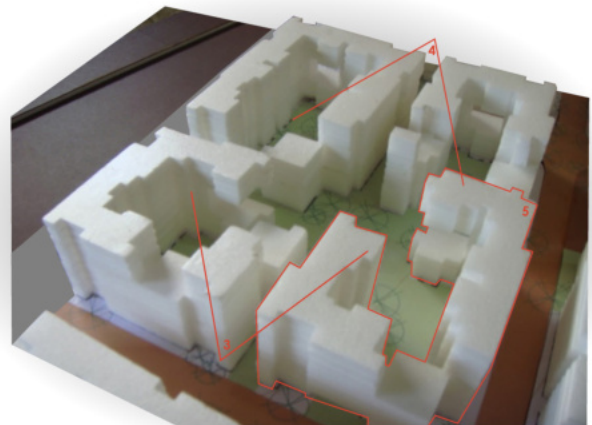
1 - View of the Temple Chowk (intersection)



Masterplan massing model



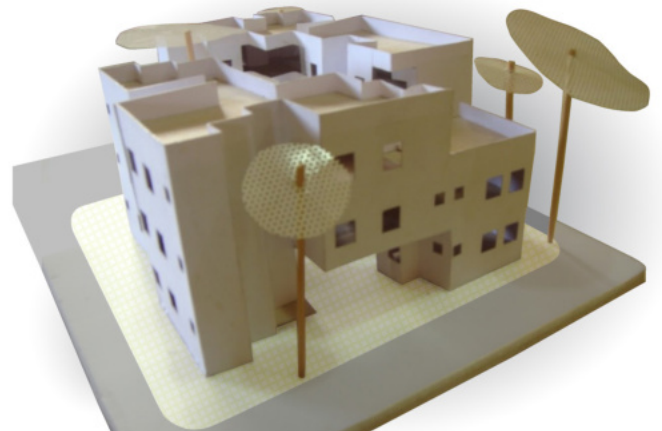
3 - View of part society



2 - Massing model of the society



4 - View of the central courtyard of the society



5 - Model of a cluster



Spatial analysis of a TAMU building using floor plans

E2 | CSHD, TAMU

College Station, TX, USA

Position: Graduate Coordinator **Job Type:** Full-time
Report to: Judy Pruitt
Tenure: Oct 2020 - Sept 2021

About Center for Health Systems and Design (CHSD)
At CHSD, Texas A&M University (TAMU), research is conducted on the effects of facility design and planning on the healthcare experience. Evidence-based research and microclimatic design methods change how health facilities promote well-being.

Responsibilities
Central to my responsibilities was synthesizing intricate research findings into visually compelling graphics—charts, tables, and diagrams—using tools such as Adobe Illustrator and Photoshop. These visual aids not only conveyed complex information but also served as invaluable tool offering a bridge between scholarly insights and broader professional understanding. Collaborating closely with fellow researchers, I developed captivating presentations for grantmakers, effectively communicating research hypotheses and results.

Learning Outcomes
My experience at CHSD has deepened my understanding of healthcare design principles and advanced my skills in applying these design methodologies to address complex architectural challenges. This multifaceted role strengthened my proficiency in research synthesis, graphic communication, collaborative presentation development, and professional networking.

E3 | MSI, TAMU

College Station, TX, USA

Position: Grad.Asst. Non Teaching **Job Type:** Part-time
Report to: Brad Hollas
Tenure: Sept 2018 - May 2019; Sept 2019 - May 2020

About Office of Mapping and Space Information (MSI)
The MSI team at Texas A&M University (TAMU) maintains the database that catalogs all space the University uses. Maintaining an up-to-date digital repository of building information and campus mapping optimizes the management of infrastructure and physical assets.

Responsibilities
My primary responsibility was to update and maintain the database in the digital repository that catalogs all spaces used by the University. Tools such as Autodesk AutoCAD and Autodesk Revit ensure the accuracy and completeness of University building drawings.

Detailed documentation of drawings with precise dimension control, room numbering, and schedules/indexes were cataloged to develop planning and capital improvement strategies. One such project was Aggimap, a collaboration between Texas A&M's Department of Geography, the Office of Mapping and Space Information, and Transportation Services.

Learning Outcomes
My tenure at MSI has introduced me to spatial database management and mapping. A high level of technical proficiency in Autodesk AutoCAD and Autodesk Revit for spatial data management. Working for large initiatives and assisting freshers have strengthened teamwork and leadership skills. Dimension control and Area Analysis schedule using Autodesk Revit

E4 | ICOMOS-USA

Washington D.C., USA

Position: Int'l Exchange Intern
Report to: Jane Seiter
Tenure: May 2019 - Aug 2019

Job Type: Internship

About ICOMOS-USA

The U.S. National Committee of the International Council on Monuments and Sites (ICOMOS-USA) promotes the conservation of world heritage, connections to the global heritage community and the international exchange of people and ideas. International Exchange Program (IEP) is a cultural heritage internship which provides hands-on training opportunities for emerging cultural heritage professionals and emphasizes the cross-cultural exchange of ideas and practices.

Projects and Responsibilities

Keeping History Above Water 2019 and Resilient Nantucket 2019 - As an IEP intern, I worked at Preservation Institute Nantucket (PIN), Nantucket, MA. While at PIN, my work responsibilities focused on a research and documentation project, Keeping History Above Water, based on the resiliency of Nantucket as the community addresses increased flooding and long-term sea level rise.

Digital documentation of Nantucket Unitarian Universalist Church - Nantucket Unitarian Universalist Church is a prominent structure in the Nantucket skyline. Hence, the digital documentation of this church is way of conserving a part of Nantucket heritage.

3D Laser scanning of Nantucket School of Design and the Arts - Nantucket School of Design and the Arts (NISDA) is the art school with roots in Nantucket's art culture and is in severe threat due to sea level rise flooding. By laser scanning this heritage asset is accurately documented into a digital model.

Learning Outcomes

3D laser scanning using a FARO x300 scanner

Aerial photogrammetry using a UAV

Use of Autodesk Recap Pro

Most importantly, I gained insights into heritage conservation as an intersection of cultural heritage with environmental challenges which requires resilience planning for preservation.



IEP 2019 interns in Washington D.C., USA



Nantucket Unitarian Universalist Church - Digital documentation



NISDA - 3D laser scans



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Lets connect to explore my detailed showcase of projects!