

INTERNATIONAL STUDENT ARCHITECTURE COMPETITION PORTFOLIO

THE ARCHIPELAGO

BIOMORPHIC INTERACTIVE MUSEUM

INTERACTIVE MUSEUM PROJECT

A cultural and learning hub formed as interconnected architectural islands: public plaza, interactive galleries, research labs, bridge networks, green roofs, and biophilic interior gardens woven into one urban experience.

SUBMISSION INFORMATION

Student: Massrah Hasan | Supervisor: Zhou Xilin

University: Wuhan University of Science and Technology | Wuhan, China

TYOLOGY

Interactive museum / cultural center

FOCUS

Biomorphic form, public experience, green roof

SUBMISSION

Student architecture competition portfolio

A museum as a living urban organism

The project transforms the museum from a closed object into a porous network of cultural islands. Three primary volumes are connected by glazed bridges, planted roofs and shared interior voids. The architecture combines exhibition, learning, research and public gathering into a continuous journey from city plaza to roof landscape.



01 Biomorphic massing

Soft concrete shells create recognizable civic identity while protecting immersive interior rooms.

02 Connected islands

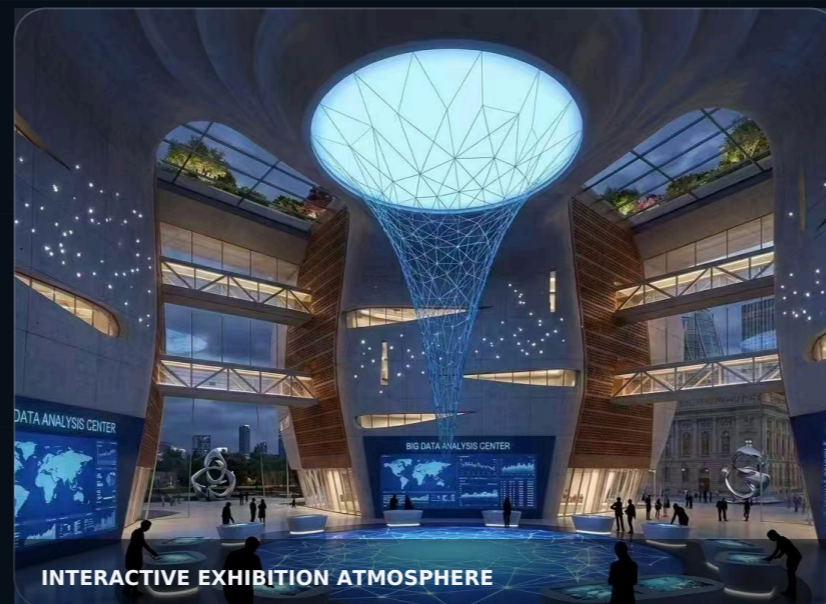
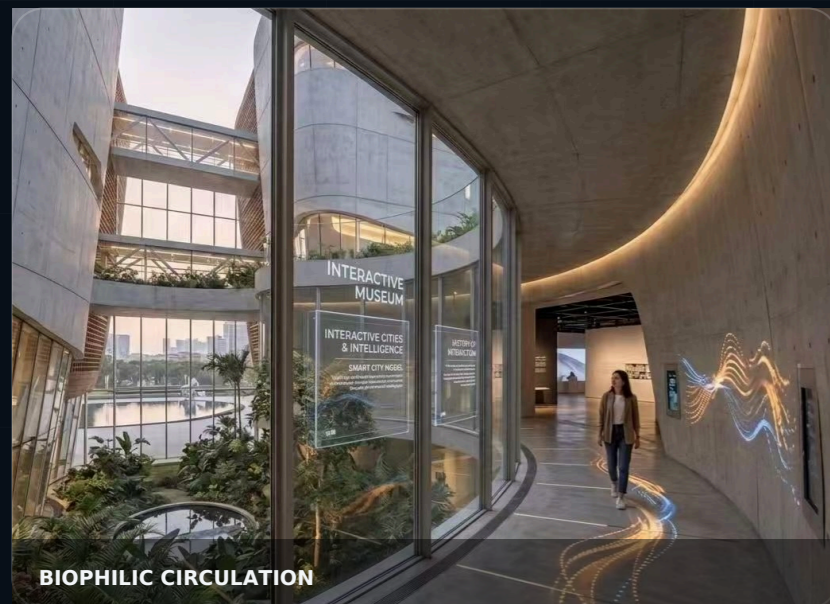
Glass bridges stitch the blocks together and make movement visible as a social event.

03 Living roofs

Roof gardens extend the landscape upward, improving public experience and microclimate.

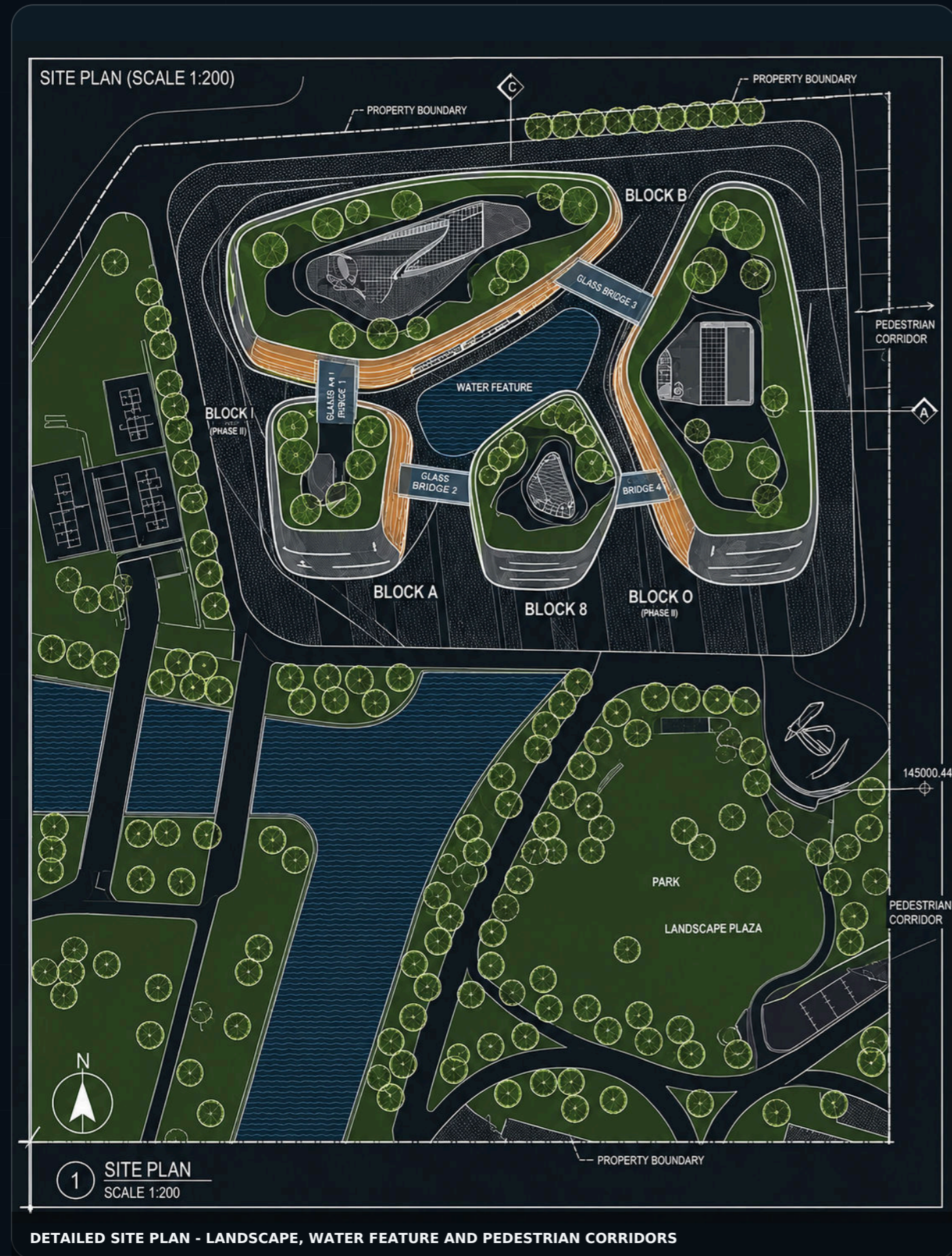
04 Interactive learning

Digital exhibits and research spaces make culture, data and science accessible to all users.



Competition narrative

- An iconic yet human-scaled public building, designed as a sequence of courtyards, bridges and terraces.
- A sustainable urban destination where landscape, learning and technology operate together.
- A clear architectural language: concrete shells, warm timber screens, high-performance glass and lush roof gardens.

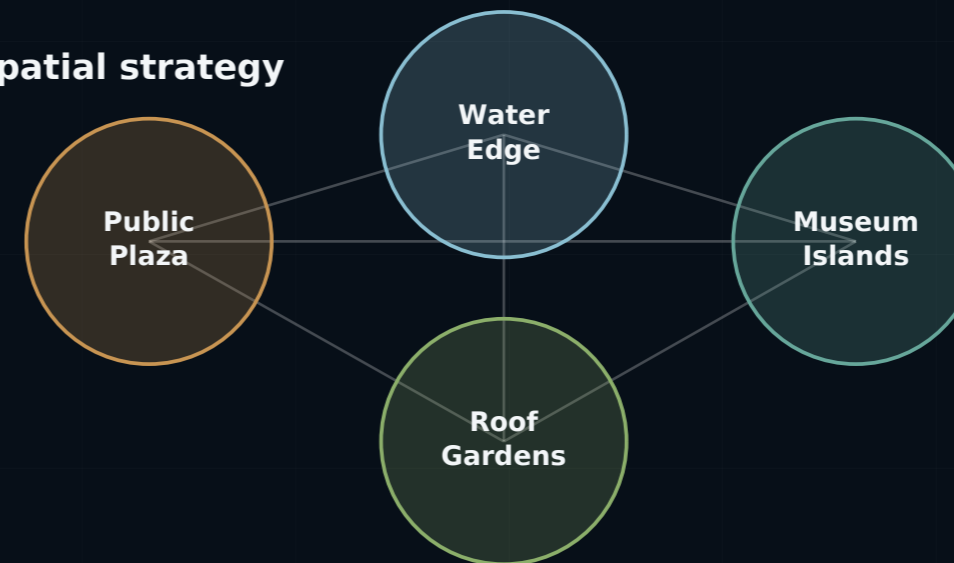


Urban landscape as the first gallery

The site is organized as a layered public ground: water, planting, shaded paths and bridge connections establish a legible arrival sequence. Visitors approach through a civic plaza, move through open landscape pockets, then enter a system of galleries and social terraces.



Spatial strategy



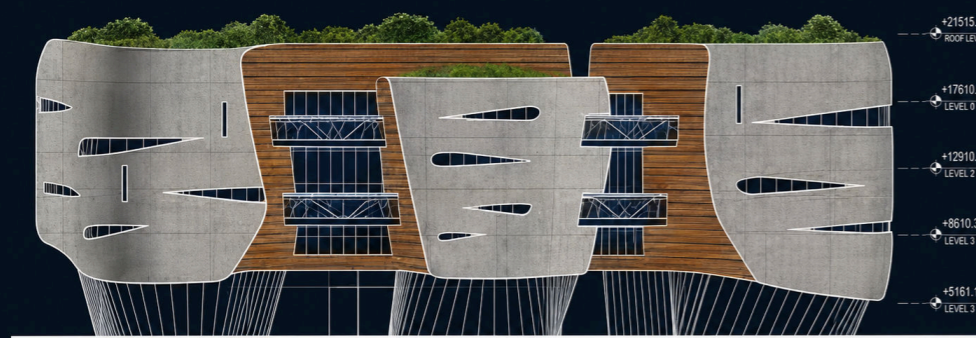
- Separate volumes reduce mass and create outdoor rooms between them.
- Bridge connectors turn circulation into an exhibition sequence.
- Water and planting soften the urban edge and frame key views.



1 FLOOR PLAN - GALLERIES, AUDITORIUM, CLASSROOMS, LABS AND BRIDGE NETWORK

Plan reading

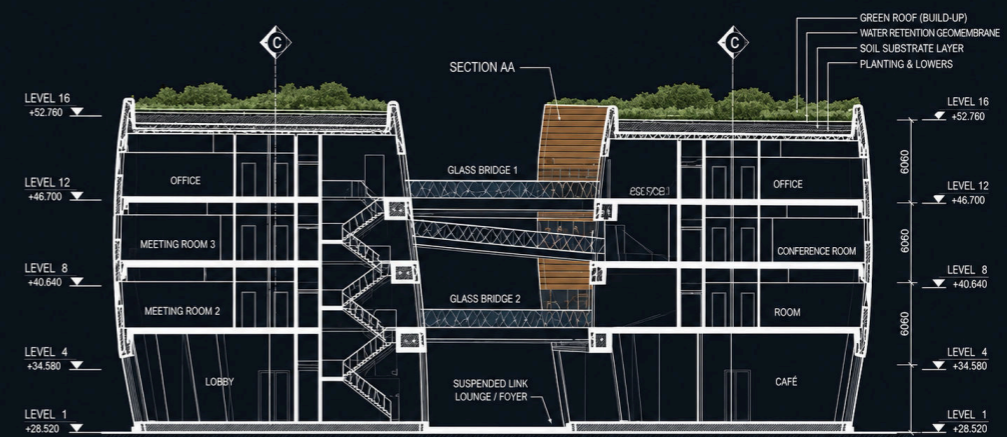
- Multiple program clusters are distributed as individual islands.
- Bridges organize both access and visual connection across the central void.
- The section clarifies a six-level experience with stacked public, learning and roof zones.
- The elevation expresses the project as a recognizable civic object.



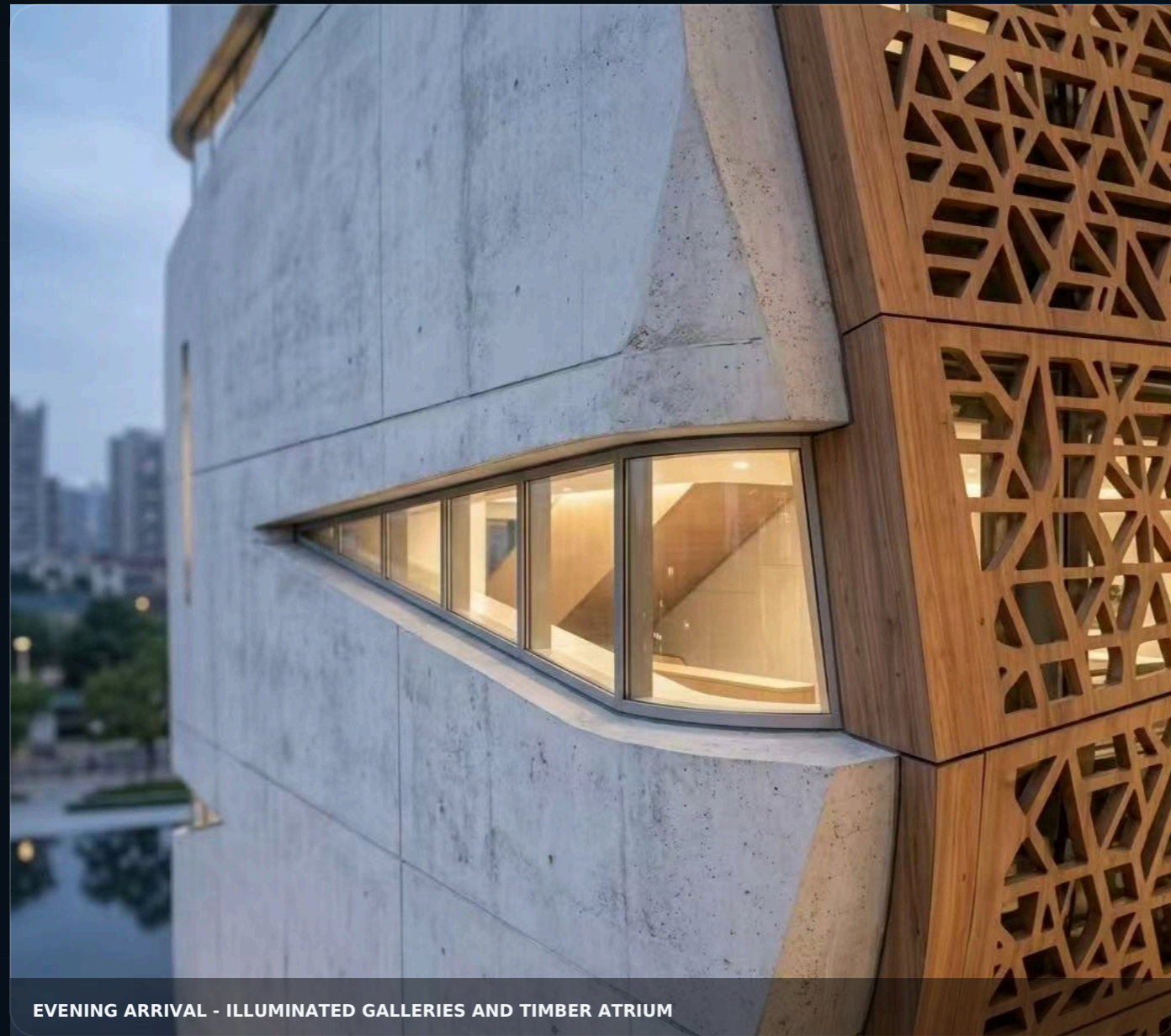
2 FRONT ELEVATION (SOUTH-WEST) SCALE 1:100

FRONT ELEVATION - CONCRETE SHELLS, TIMBER SCREENS AND GLASS BRIDGES

2 FRONT ELEVATION (SOUTH-WEST) SCALE 1:100



SECTION - STACKED PROGRAMS, SKY BRIDGES AND ROOF GARDEN BUILD-UP



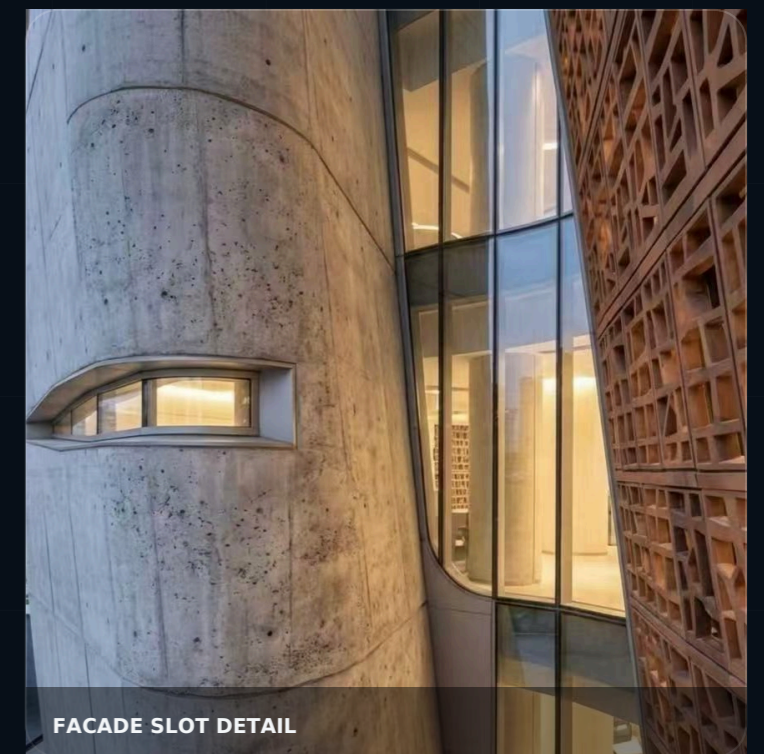
EVENING ARRIVAL - ILLUMINATED GALLERIES AND TIMBER ATRIUM



DAYLIGHT FACADE - CONCRETE SHELLS AND REFLECTIVE WATER



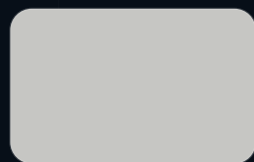
PUBLIC VIEWPOINTS



FACADE SLOT DETAIL

Material identity

The exterior uses a restrained palette: in-situ concrete, warm timber screens, clear glazing and landscaped roof edges. The contrast creates an image that is both civic and approachable, while the slot openings give the facade a distinctive biomorphic expression.



In-situ concrete



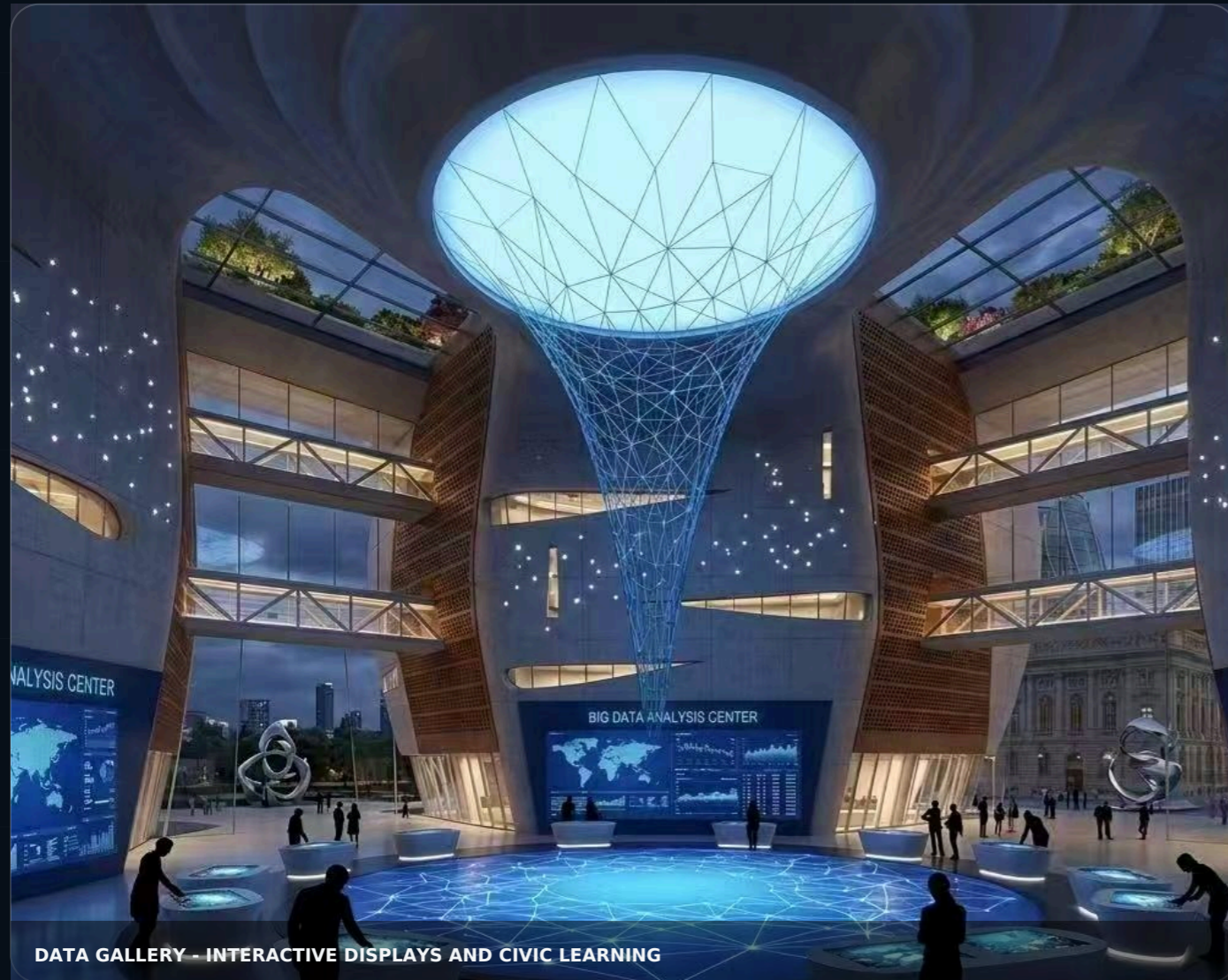
Timber cladding



High-performance glass



Roof planting



DATA GALLERY – INTERACTIVE DISPLAYS AND CIVIC LEARNING



SPACE HALL - IMMERSIVE MEDIA AND SUSPENDED EXHIBITS



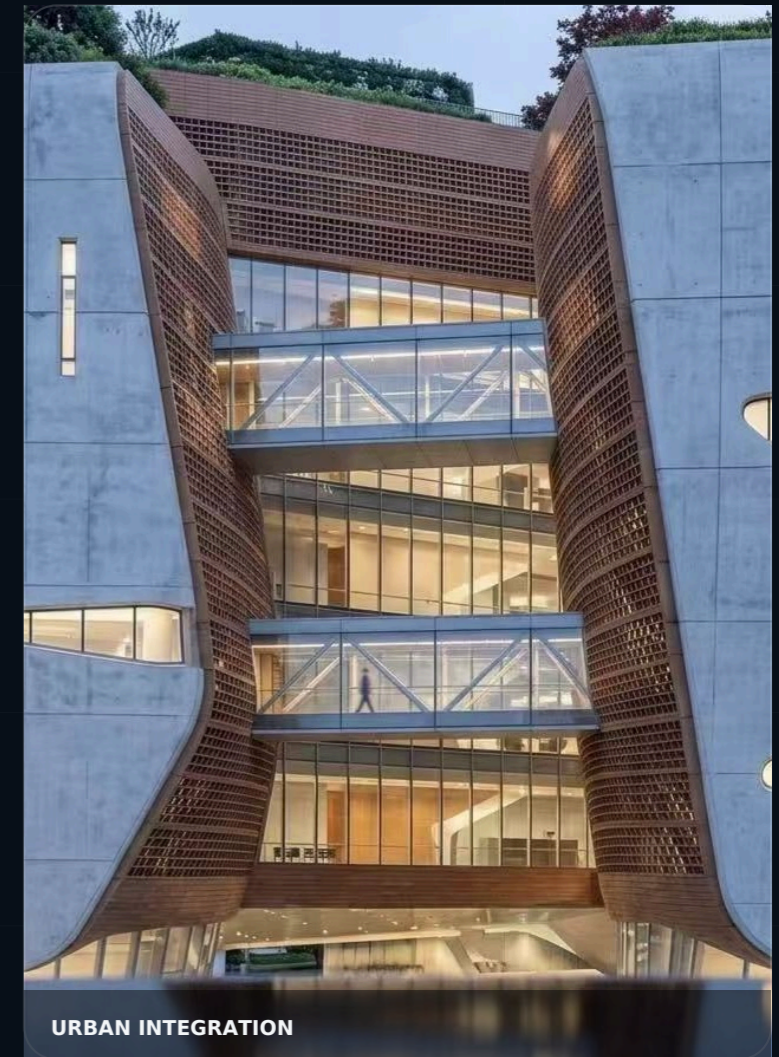
CURVED CIRCULATION WITH PLANTED ATRIUM



INTER-BLOCK BRIDGE AND TRANSPARENT LINKS

Visitor journey

- Arrival through landscape and reflective water edge.
- Movement through a transparent bridge sequence that reveals the inner life of the building.
- Immersive galleries combine digital media, models, data walls and flexible exhibition platforms.
- Biophilic gardens provide pause points and improve orientation.



Environmental ambition

Sustainability is embedded in the spatial experience, not added as a technical afterthought. Landscape becomes circulation, roof becomes public realm, and facade depth becomes both identity and performance.

Green roof system

Planting zones improve thermal buffering, stormwater absorption and visual amenity.

Shaded civic voids

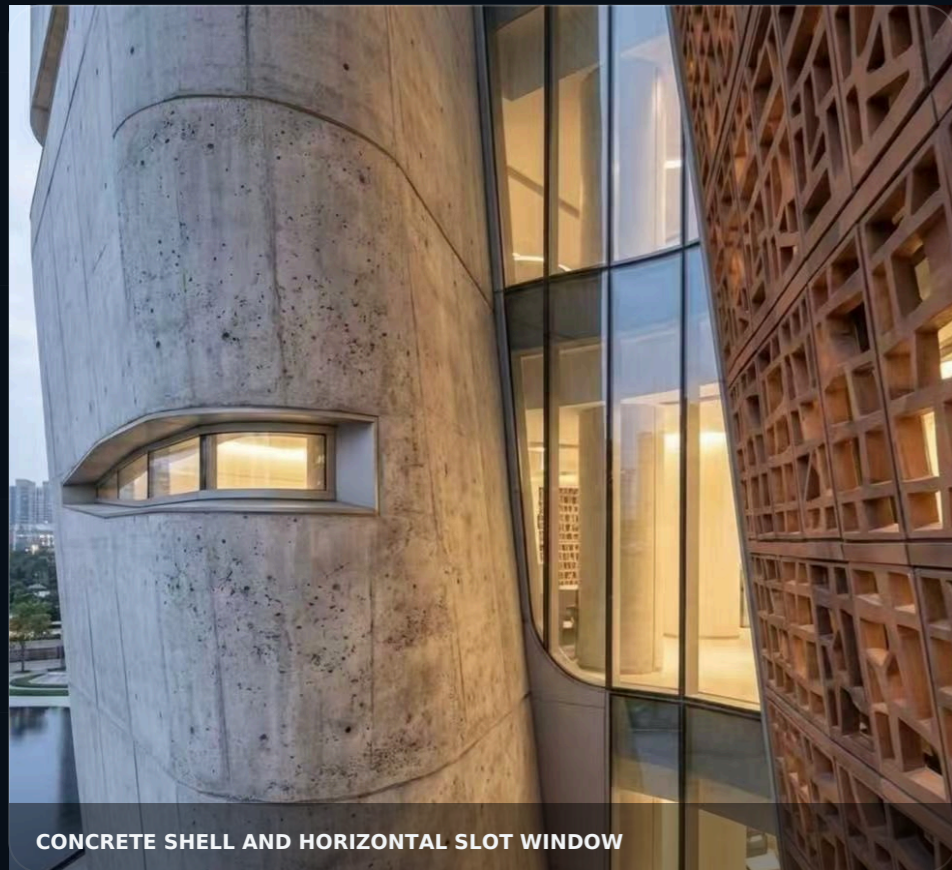
The separated blocks create shaded microclimates and outdoor rooms for public use.

Daylight control

Horizontal slots and deep facade reveals bring controlled light into galleries.

Material contrast

Concrete mass, timber screens and glass bridges balance durability, warmth and transparency.



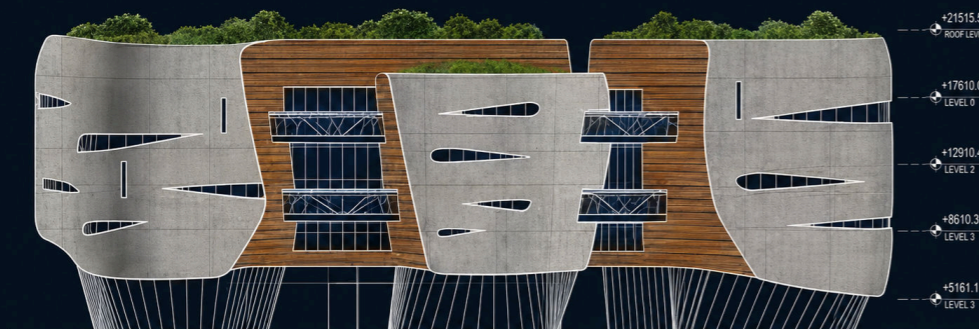
CONCRETE SHELL AND HORIZONTAL SLOT WINDOW



BRIDGE CONNECTION BETWEEN TIMBER SCREENS



ROOF EDGE AND PLANTED TERRACE



2 FRONT ELEVATION (SOUTH-WEST)
SCALE 1:100

ELEVATION STUDY - FACADE RHYTHM AND MASSING


Detail logic for competition boards

- Primary shell: smooth in-situ concrete panels with rounded corners and thick reveals.
- Secondary layer: warm patterned timber screen panels that form the central atrium edge.
- Glazed bridges: transparent connectors expose circulation and strengthen the social reading of the museum.
- Slit openings: horizontal slots balance daylight, privacy and facade identity.
- Roof build-up: planted surfaces with accessible paths and drainage zones.

SUBMIT AS DETAILS / SECTIONS / MATERIAL PALETTE

BIOMORPHIC INTERACTIVE MUSEUM

A nested, interconnected biomorphic volumes with intensive rooftop gardens, more faceted facades resolve: is, what materially communicate, and spaces volumes into kian aloxesn more biemies. More than a image, it's a proven design.



FACADE ENGINEERING

INSITU CONCRETE WITH HORIZONTAL SLOTS PATTERNED TIMBER CLADDING PANELS ROOF GARDEN ACCESS AND DRAINAGE

ORTHOGRAPHIC ELEVATION VIEW INTEGRATED INTER-BLOCK BRIDGE CONNECTORS CFRC SCALED DETAIL OF FACADE PANEL SCALED DETAIL OF CFRC


ARCHITECTURAL DETAILS

FACADE SLOT DETAIL INTER-BLOCK BRIDGE CONNECTION

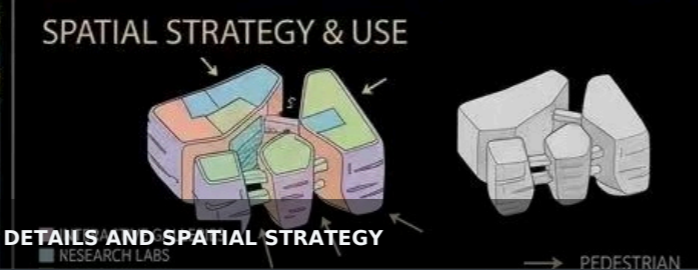
INTER-BLOCK BRIDGE CONNECTION

COMPETITION BOARD - CONCEPT, FACADE ENGINEERING, DETAILS AND SPATIAL STRATEGY

SPATIAL STRATEGY & USE



SPATIAL STRATEGY & USE



PEDESTRIAN

MATERIAL PALETTE & SAMPLES

INSITU CONCRETE WITH	INSITU CONCRETE	WARM TIMBER CLADDING	HIGH PERFORMANCE GLAZES
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Recommended competition upload set

- One concise PDF portfolio with title, narrative, drawings, renderings and detail strategy.
- Separate high-resolution images for site plan, floor plan, section, elevation and final renderings.
- Short English project description limited to the competition form requirements.
- Author details, university, country and supervisor added only in the official submission fields if anonymity is required.

Submission information

- Student: Massrah Hasan
- Project: Interactive Museum Project
- Supervisor: Zhou Xilin
- University: Wuhan University of Science and Technology
- Location: Wuhan, China
- Check anonymity rules before final upload

Submission Statement

The Archipelago proposes a museum that behaves like an urban ecosystem: a set of connected islands where public life, learning, research, landscape and technology overlap. Its architecture is memorable from the city, generous at the ground plane, and immersive inside. The project aims to make cultural education visible, accessible and environmentally responsive.

Identity

Recognizable biomorphic form

Connectivity

Bridges and public routes

Ecology

Green roofs and garden voids

Learning

Interactive museum program

Urban value

Landscape and civic plaza

Detail

Concrete, timber and glass logic