

XISUI Design's Project | Forest Delight: Lighthouse Nature Park at Aranya Wuling Mountain

Growing with Nature: XISUI Design's Eco-Logs Camp on Wuling Mountain – Blending Play, Learning, Ecology & Sustainability to Create a New Mountainous Kids' Space

SHANGHAI, CHINA, August 25, 2025 /EINPresswire.com/ -- On July 15, 2025, "[Lighthouse Nature Park](#)" at Aranya Wuling Mountain—designed by [XISUI Design](#)—officially opened. Spanning 25,200 sqm, this "[children's forest camp on natural meadows](#)" in Chengde, Hebei, China, is designed with a "nature + non-powered" concept. Leveraging all-timber structures, terrain-rainwater synergy, and non-powered facilities, it creates an immersive play space where kids reconnect with nature. "Urban kids need sensory ties to the natural world," said lead designer Hu Yihao. "We built this playful space to spark that connection, blending



Nest-inspired tower_Photo by Silver Salt Photo Studio (Courtesy of Aranya Wuling Mountain)

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The natural scenery of Wuling Mountain and its surrounding hills provide unique natural conditions, guiding our design from a raw, unspoiled perspective.”

Hu Yihao, Design Director of XISUI Design

family fun and nature-based exploration into a suburban-mountain kids' space model.”

Design Philosophy

The project is themed around pure nature throughout. It constructs an immersive natural education space covering children's physical, social, and cognitive development through all-timber functional buildings (ticket booths, restrooms, etc.) and non-powered activity facilities, implementing the "natural and non-powered" strategy.

Spatial Strategies & Innovations

1. Topography-Rainwater Synergy Design

In accordance with the terrain that is higher in the north and lower in the south, a natural surface runoff management system has been implemented:

- Natural infiltration □ Children's water play area □ Dry stream □ Shallow drainage channel □ Flood intercepting ditch (replacing underground pipelines)
- Naturally purified rainwater replenishes the water-play pool; the dry stream serves the peak-shaving flood storage function during heavy rain.

2. Ecological Material System

- Paving: Gravel, pine bark, lawn, timber sleepers, preservative-treated timbers
- Facilities: Main facility structures are constructed from North American Robinia logs (naturally rot-resistant)
- Plants: Existing poplar groves are preserved and supplemented with ornamental grasses (e.g., Pennisetum) to enhance seasonal narratives.

3. Functional Natural Architecture

From play installations to functional structures (ticket booths, restrooms), all adopt log construction to achieve:

- Comprehensive coverage of children's activity types: physical training (climbing, balancing), sensory stimulation (acoustic installations), social collaboration (multi-user facilities)
- A unified visual language between architectural structures and natural installations.

4. Functional Zoning Based on Existing Topography and Age Groups

- Younger Children's Area: Lawn activities, ground adventures



Aquatic play area_Photo by Silver Salt Photo Studio
(Courtesy of Aranya Wuling Mountain)



Floating bridge_Photo by Silver Salt Photo Studio
(Courtesy of Aranya Wuling Mountain)

- Intermediate Area: Nest-inspired tower, Forest boardwalk
- All-Ages Area: Aquatic play area, Amphitheater, Deer enclosure

Overall, following natural contours from the northern hilltop to the southern sunken area, the design establishes a flowing exploration path "from treetops to roots, meadows to streams," and utilizes elevation differences to create dynamic play experiences.

Play diversity follows the 15-character principle: Run, jump, crawl, climb, slide, rock, spin, hang, swing, balance, listen, watch, recognize, create, and accompany.

5. "1-Meter Scale" Safety

- Parametric modeling to verify slide angles and fall trajectories
- Using impact-absorbing natural materials for ground surfaces, such as pine bark, grass, and rounded gravel
- Engaging professional consultants to ensure overall structural safety and specify detailed timber foundation structures and connection joints.

Technical Challenges

- Natural Aesthetic Consistency

To maintain the "wilderness-like feel," strict collaboration is required among designers, the client, and construction teams.

- Complex Timber Structure Implementation

The egg-shaped cantilever unit of the bird's nest-inspired tower experienced structural failure during prototype assembly, necessitating disassembly and reassembly. This issue was resolved through on-site technical adjustments.

- Multi-Disciplinary Collaboration

The design team frequently stationed on-site to coordinate the technical integration among landscape architects, structural consultants, and manufacturers.

Conclusion

The project integrates rainwater management, material recycling, and children's development into a unified natural framework. Through adaptive terrain design, the application of genuine natural materials, and rigorous safety standards for children, it provides a design reference for combining children's spaces in urban suburbs with mountainous wilderness.

Design Firm: XISUI Design

Design Team: Hu Yihao, Peng Yang, Li Chengxi, Cai Jiangang, Zhang Xi, Fu Yuyu, Chen Wenqi, Wei Lingmo, Dai Tianjun, Zhao Fangbo

Location: East of Aranya Wuling Mountain Phase II, Chengde, Hebei

Area: 25,200 sqm

Completion: July 15, 2025

Collaborators: Landscape Consultant: NAP; Structure Consultant: LuAnLu Partner Structure

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