**SMALL HOUSE IN ALLEY OPTIMIZING LIVING SPACE THANKS TO SMART INTERIOR**

In the context of increasingly crowded big cities, designing houses on small land areas is a difficult problem, especially when having to meet the living needs of a family of 4. However, the project below has cleverly solved this problem through taking advantage of floor height, smart interior design and bringing a comfortable, airy and aesthetic living space.

Category: Architectural and interior renovation of houses

Location: 169/8A Thoai Ngoc Hau, Hoa Thanh, Tan Phu, Ho Chi Minh, Vietnam

Area: 75m2

Year: 2023

Client: Mr. Thien

Design team: Nguyen Hong Ngoc, Luu Quoc Thinh, Truong Ngoc Luyen

Construction: Akitephile- Space

Chief engineer: Vu Thanh Tro

Photo: Luu Quoc Thinh

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**Overview of the project**

• **Land area:** 25m² (5m x 5m).

• **Construction scale:** 3 floors, total usable floor area is 75m².

• **Number of members:** Family of 4 (2 parents and 2 children).

• **Key design:**

o Flexible use of floor height to create mezzanine, bunk bed and multifunctional space.

o Optimizing every small corner for functionality.

o Bringing green trees into the architecture to create a cool, close-to-nature feeling.

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**Arrangement of the floors**

**1. Ground floor:** Common living space

**• Combined kitchen and living room:**

o The kitchen and living room space are combined in a compact area but do not cause a feeling of claustrophobia thanks to the use of minimalist furniture and open design.

o The dining table is attached to the wall, can be folded when not in use, saving space.

o A small sofa set with drawers underneath to increase storage space.

**• Garage:**

o The garage is low, just enough to hold 3 motorbikes, neatly arranged under the stairs.

o This area has a light partition to limit odors and dust from motorbikes affecting the living space.

**• Storage:**

o Hidden corners under the stairs and next to the wall are used as small warehouses to store rarely used items.

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**2. 2nd Floor: Space for children**

**• Bedroom for 2 children:**

o The bedroom is designed to be multifunctional with a bunk bed system combined with a study corner.

o The bunk bed is intelligently designed: the lower bed can be pulled out when in use and folded up to increase the children's play space.

o The study corner is arranged next to the window to get natural light, helping to save electricity and is good for children's health.

o The connecting space between the two beds creates interaction between children, both private and close.

**• Shared bathroom:**

o The compact bathroom is divided into 3 independent compartments: shower area, toilet area, and wash basin.

o This layout is inspired by small apartments in Japan, allowing many people to use it at the same time while still maintaining privacy.

**• Smart storage:**

o Built-in cabinets and storage compartments are integrated into the bunk bed and study desk to save space.

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**3. 3rd floor: Parents' master bedroom**

**• Master bedroom:**

o Fully equipped with basic functions, including a king-sized bed, built-in wardrobe and small integrated working corner.

o Space with access to natural light through large windows, combined with a curtain system to flexibly adjust the light.

**• Private living space:**

o The bedroom has an additional small corner for relaxing, reading, or drinking tea, bringing a comfortable and quiet feeling to the couple.

**• Space optimization:**

o Items such as desks and bookshelves are designed to be attached to the wall to save space.

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**Architectural facade**

**• Green tree cover:**

o The facade of the house is designed with a trellis system and green trees to create a cool green space.

o The windows open wide to the green space not only help to get light and ventilation but also create privacy for the family.

**• Modern and minimalist style:**

o Using glass, steel and brick materials combined with neutral colors, bringing harmony and sophistication.

**• Creating a highlight in a small alley:**

o Although located in a narrow alley, the house still stands out thanks to its cool green appearance, creating a feeling of closeness to nature and being different from the surrounding buildings.

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**Conclusion**

The house in a small alley with an area of ​​only 25m² is a clear proof that, with creativity and ingenuity in design, we can completely create a living space that is not only fully functional but also flexible, interesting and aesthetic. In addition to optimizing the area and function, the combination of green trees and smart space arrangement has turned this small house into an ideal home for a family of 4, and at the same time an outstanding architectural work in the heart of the city.