

# Stair +

## Farah Kaymouz

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Date Created: 02/26/2023

Dimensions: 14"x12"x16"

Materials Used: wood, canvas fabric, adhesive spray, magnets

### Description

Rise + Run is a transformable stair design project by Farah Kaymouz and Jerry Huang for the Materiality & Space 4: TranSTUDIO 2024 Adaptive Design course at California College of the Arts. This project reimagines stairs as dynamic architectural elements that integrate form, function, and sustainability in a seamless transformation. The design features two diamond-shaped components connected by piano hinges, allowing them to transform into a three-dimensional staircase in two different axis. When not in use, one segment ascends, secured by magnets, while the other retracts into the wall, optimizing space and enhancing functionality. This folding mechanism also incorporates a vertical garden, enriching the environment with greenery and promoting ecological harmony. "Rise and Run" challenges conventional stair design by introducing adaptability and multifunctionality into architectural spaces. Through precise iteration and innovative craftsmanship, the project demonstrates how architectural elements can transcend utility to foster aesthetic and sustainable solutions.

### Statement

"Rise and Run" explores the potential of architectural elements to adapt and transform, offering a fresh perspective on how stairs interact with space. By merging utility, innovation, and sustainability, the design transforms static stairs into dynamic, multifunctional features. Its dual-fold mechanism introduces a playful experience while maximizing space efficiency. It doubles with an unexpected integration of a green wall feature when not in function, fostering a connection to nature. Through its transformative approach, "Rise and Run" serves as a testament to the evolving possibilities of adaptive architecture while challenging the convention of mechanics.

### Designer(s) Biography:

Farah Kaymouz is an interior design student and artist whose work captures the essence of nostalgia through a blend of art and design. With a focus on craft-based studies and material exploration, her process embraces iteration and fabrication to create spaces that evoke memory and connection.

Balancing the roles of artist and designer, Farah adapts her approach to each project, shifting between expressive artistry and functional design to achieve synergy.

Jiayue Huang is a senior interior design student passionate about creating beautiful, comfortable spaces that resonate with people. Versatile and imaginative, Jiayue enjoys exploring various materials and fabrication methods for building physical models, along with digital rendering. With a commitment to merging aesthetics and functionality, Jiayue's goal is to create spaces that are accessible and enjoyable for everyone, enhancing everyday experiences through thoughtful design.

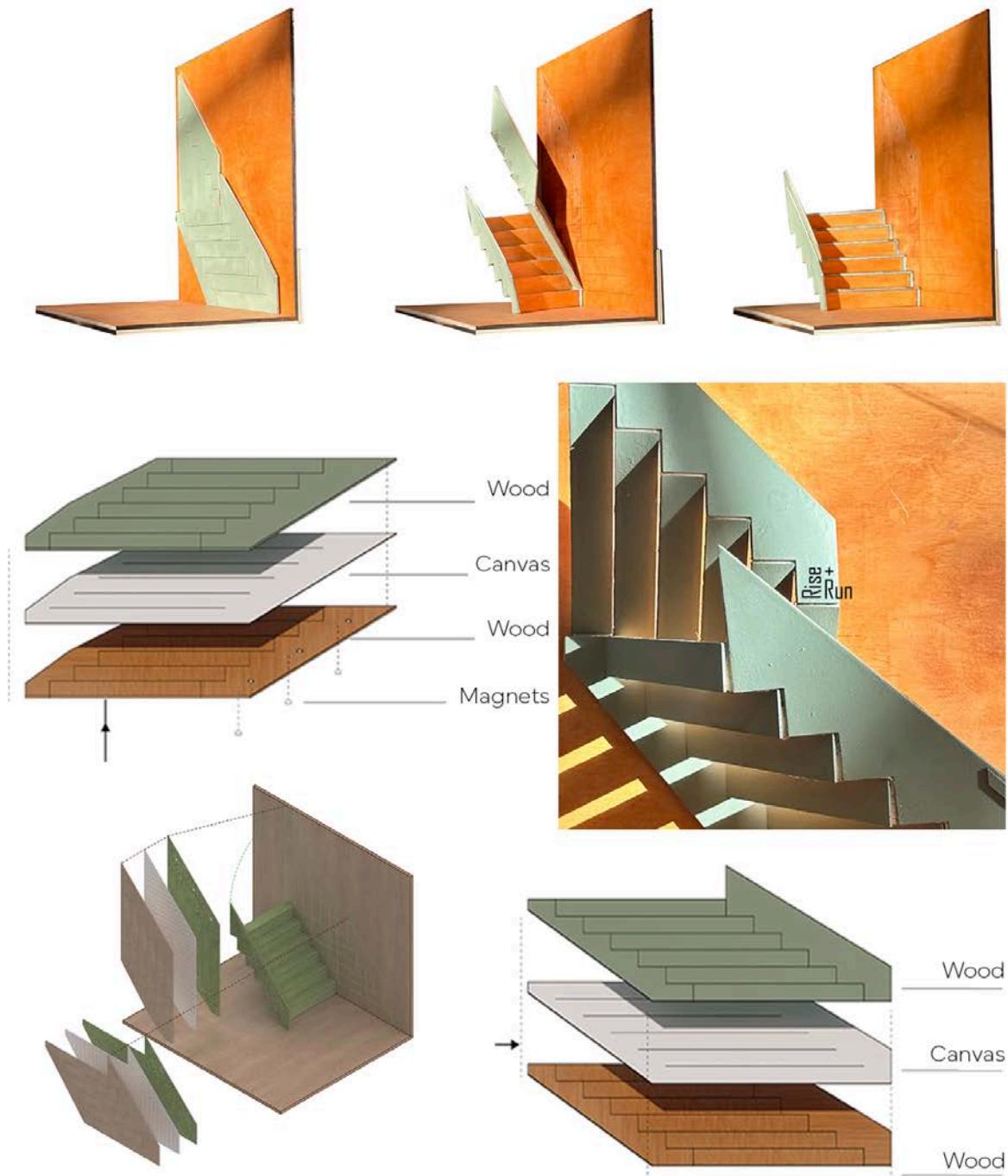


Figure Description: From top to bottom - Physical Model Transformation Stages. Half Transformed Close-up of Physical Model. Digital Diagram of the Components Order and Both Transformations' Axis.