

CUT OUTLINE

STUDIO PROJECT JOURNAL

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[DESIGNING FOR RESILIENT]
SUSTAINABLE SYSTEMS
PARSONS THE NEW SCHOOL
INSTRUCTOR: CAROLIN MEES
SPRING 2016

THE BUILT ENVIRONMENT
AND THE URBAN GARDEN

CUT OUTLINE

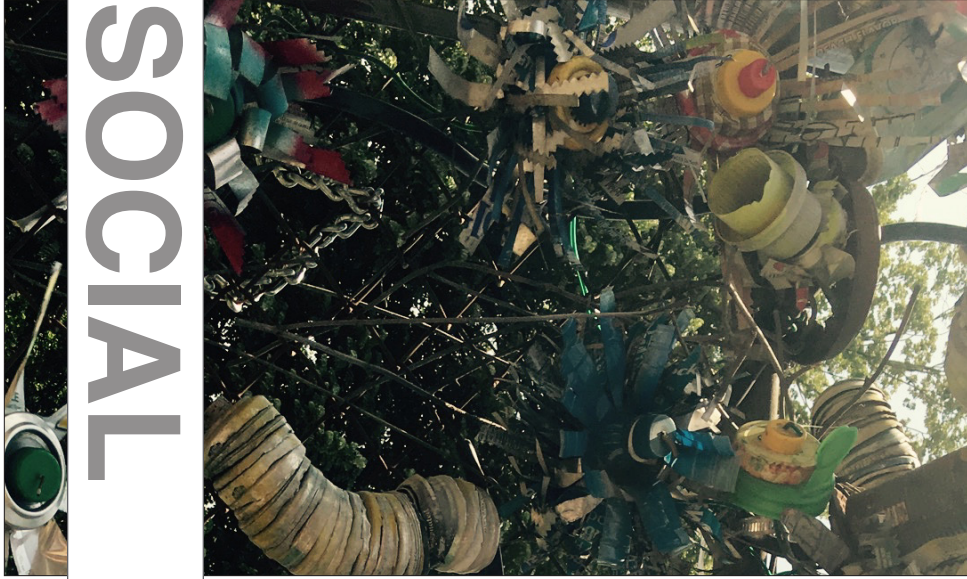
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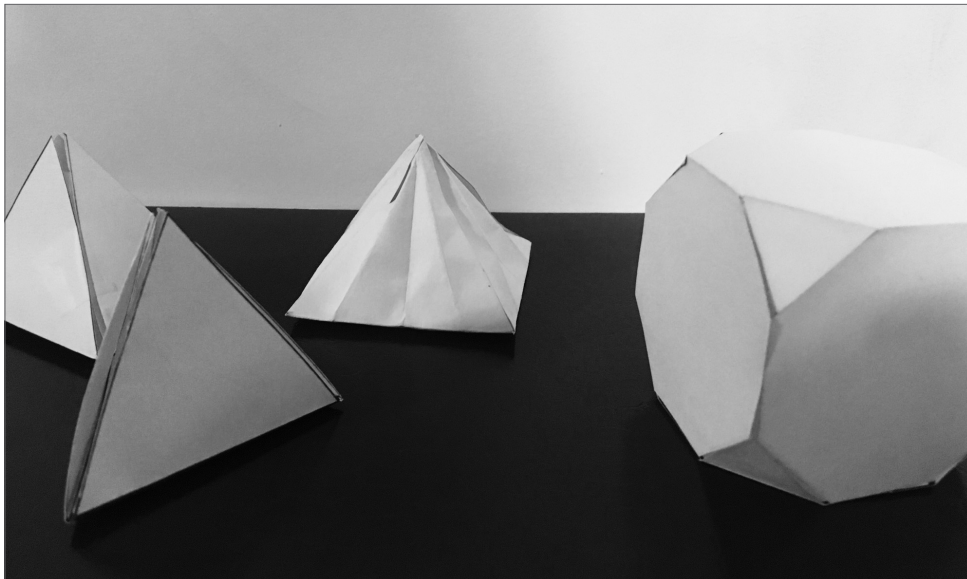
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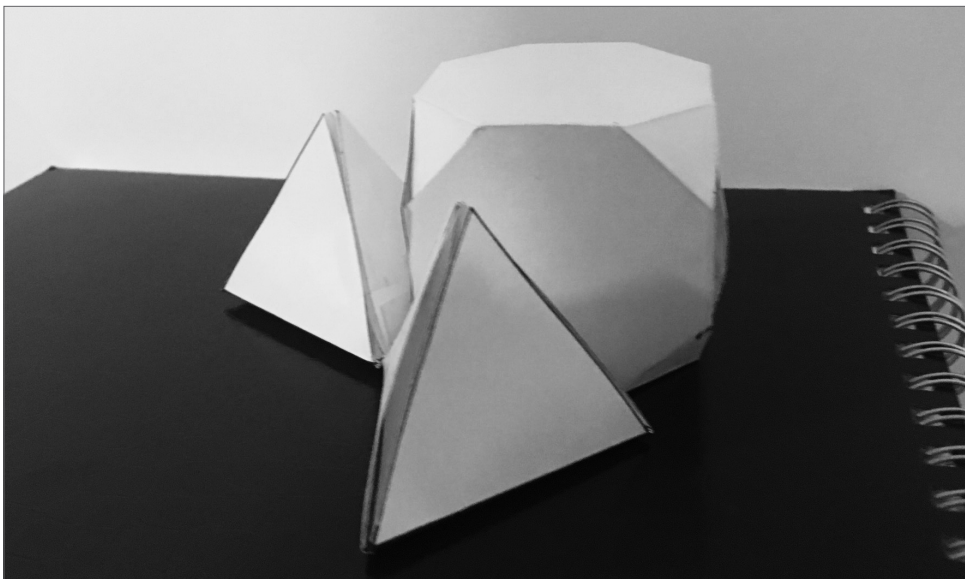
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CLIMATE



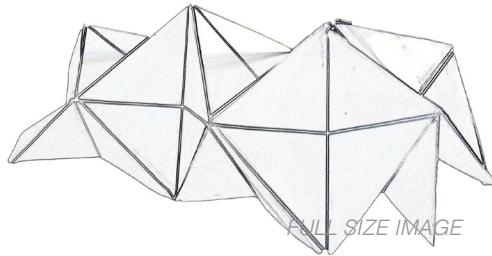
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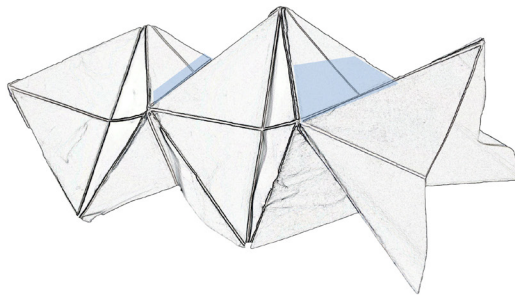
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CLIMATE STRUCTURE.



FULL SIZE IMAGE

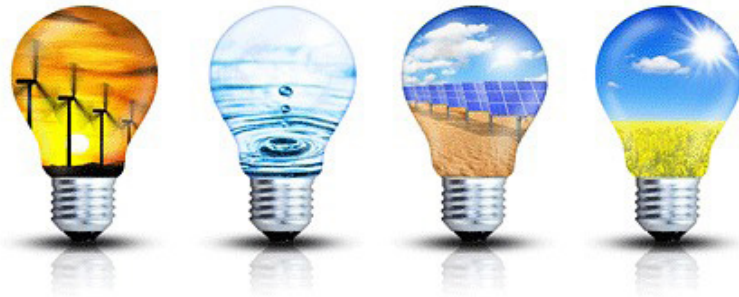


This is my first application of a sustainable problem to my structure. This piece will collect water on the roof and runoff the sides.

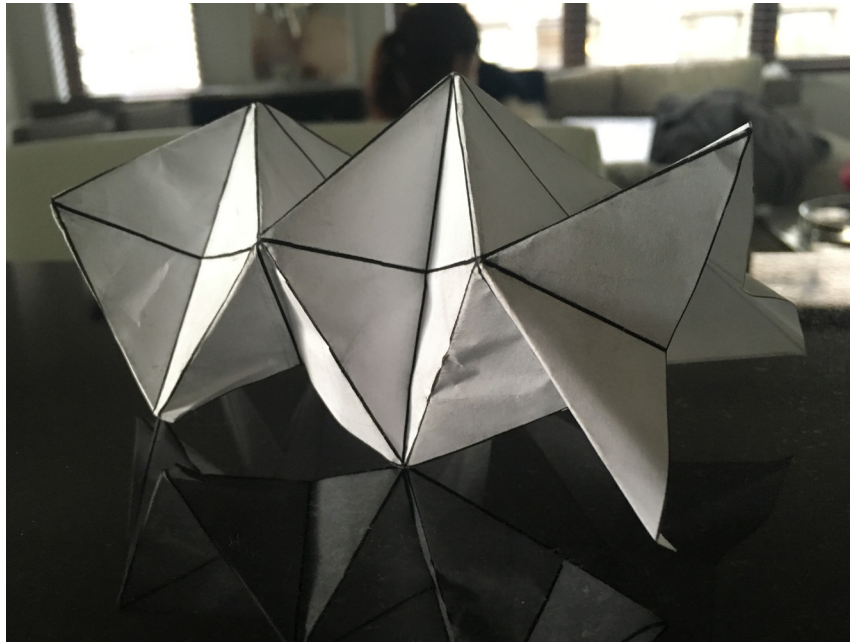
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ENERGY



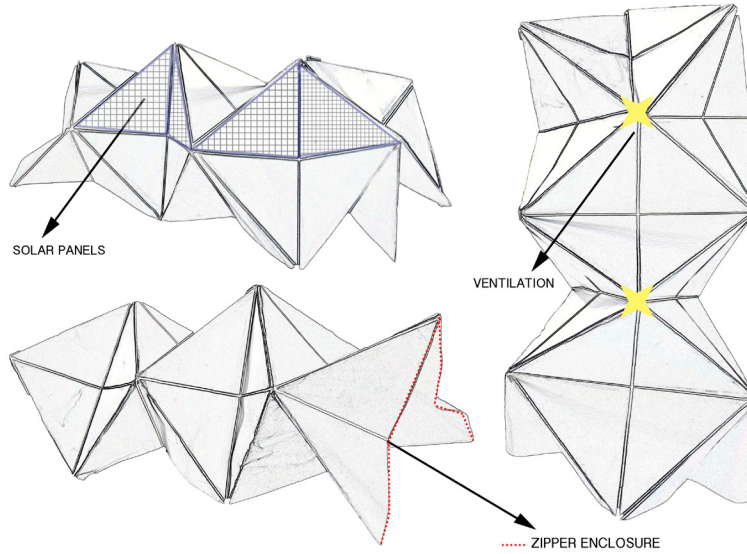
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ENERGY STRUCTURE.



This is my Energy application to my structure. Here I would have ventilation on the roof so the air can circulate as well as a zipper enclosure in the front in rear for proper air flow. Lastly the sides of the structure will have solar panels for energy consumption.

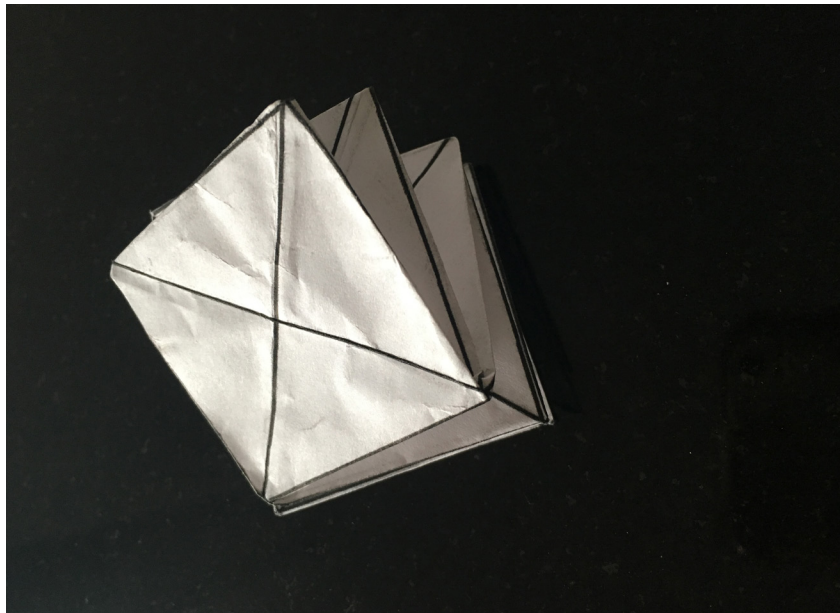
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MOBILITY



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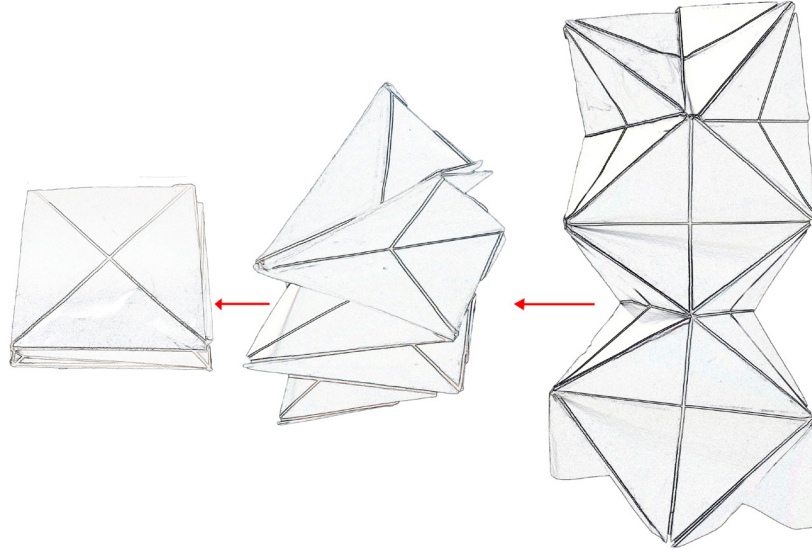
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MOBILITY STRUCTURE.



For easy mobility, the structure can be folded into a small square for easy transportation.

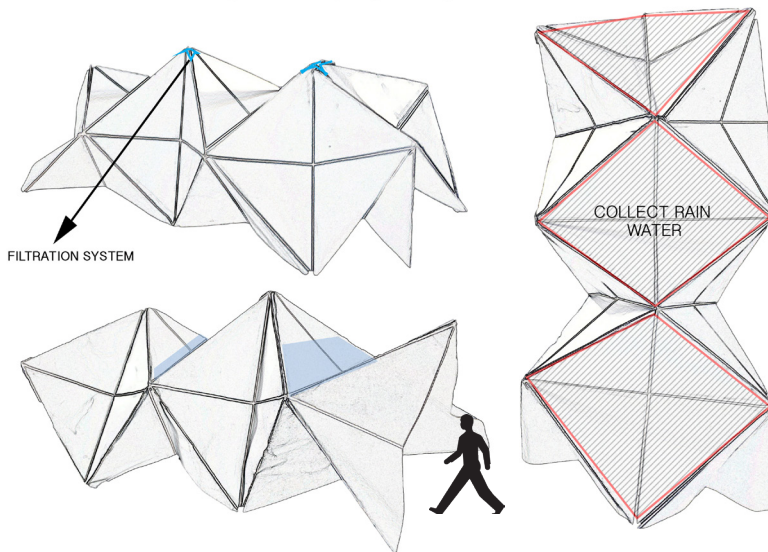
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WATER



WATER STRUCTURE.

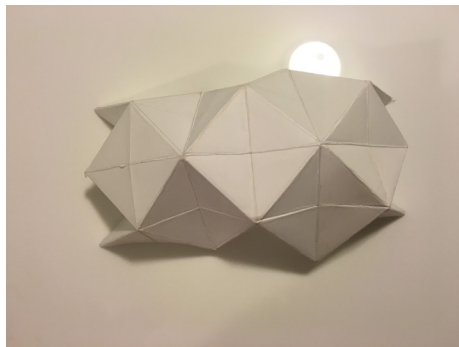
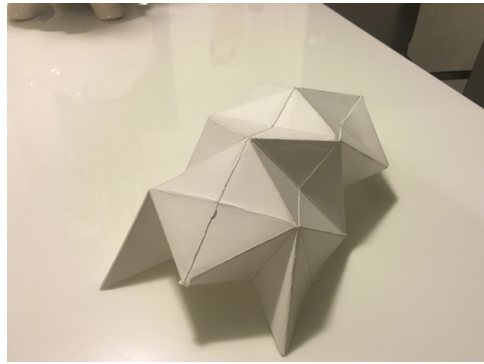
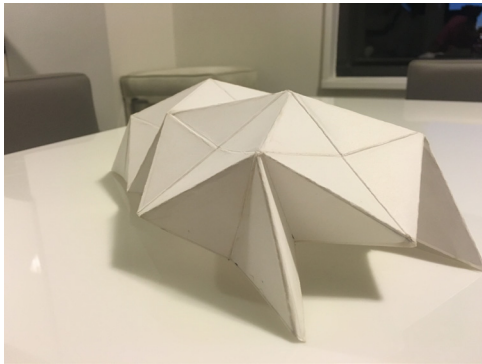
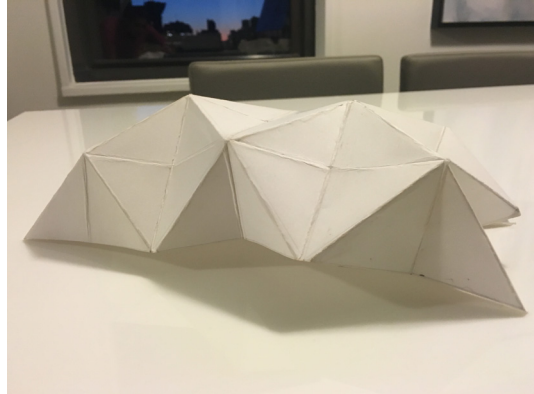
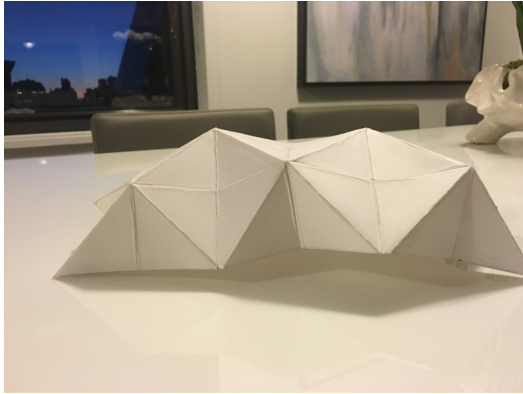


This model would collect rain water through the concave squares above the structure and then filter through pipes designated in the points of the structure

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MATERIAL



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FOLDED

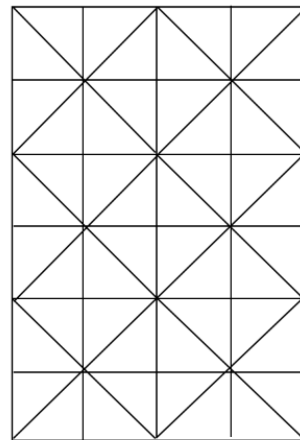
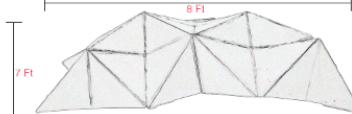


12 x 26

TOP VIEW



FRONT VIEW



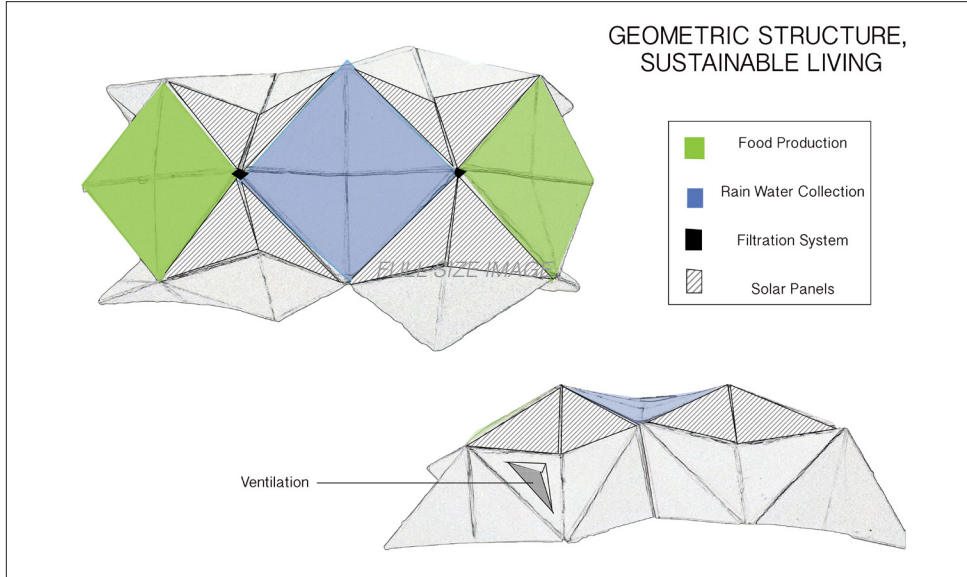
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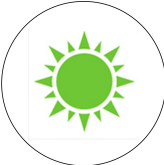
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ALUCORE: Lightweight aluminum composite panel consisting of a honeycomb core sandwiched between two cover sheets. This material has a high rigidity, high load capacity, high formability, excellent weather resistance, is vibration-damping, and the cover sheets possess a high tensile strength. The composite is suitable for applications with very demanding technical requirements such as self-supporting roofs or ele-




GREEN ROOF: Green roofs—sometimes referred to as vegetated roofs or 'eco-roofs'—consist of a waterproofing membrane, growing medium (soil) and vegetation (plants) overlying a traditional roof. Conventional roofs are often known as black roofs, their traditional color.




SYMPATEX: 100% recyclable membrane, perfectly safe polyether/ester, PTFE-free and PFC-free BlueSign® approved membrane, laminates tapes, Fluorocarbon-free treatment, 100% recyclable fabrics, 100% recycled textiles/linings. Reduced carbon footprint in the polymer production.



SOLAFLOX: A PTFE coating applied onto woven fiberglass textiles that allows the surface to be printed, colored and heat welded. This material has a high reflectivity of light, water resistant, sound absorbing as well as a high fire resistance. This technology is currently being used for architectural membranes in airports and institutional architecture.



SOLAR THREADS: The idea is that specially coated solar threads are woven into conventional fabric so designers wouldn't have to use fixed solar panels to harness the energy. It would also have three directional glides that can be moved throughout the day to maximise solar efficiency and energy collection.

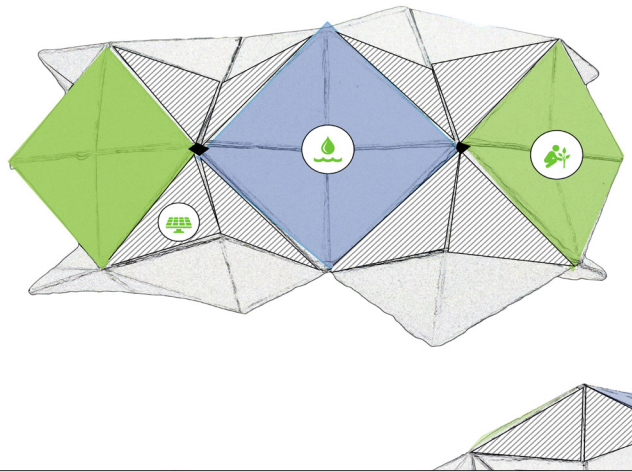


Smart Electric Fibers: Fabrics that change color on demand could help soldiers blend into their environments and could enable wearable displays and sensors. In a step toward such textiles, researchers have made flexible fibers that turn red, green, blue, or yellow when triggered by an electric voltage.

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SYSTEMS



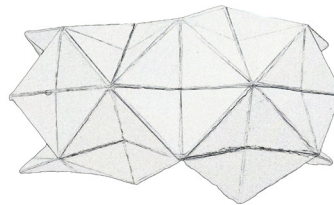
Sustainable colonies provide many benefits. The structure is made with sustainable materials that ensure a healthy way of living while remaining practical and environmentally safe. With the ability for the structure to be added to other ones of its kind, people can optimize the space, energy, and efficiency. Also, by having them connect, there is additional protection and surface area to have more people interact with each other. Essentially, this sustainable structure allows for individuals to weave their lives together while still being able to pick and move if there are climate issues or imminent threats.

FOLDED

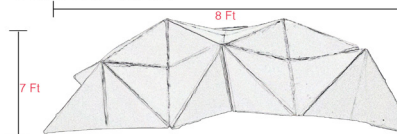


12 x 26

TOP VIEW

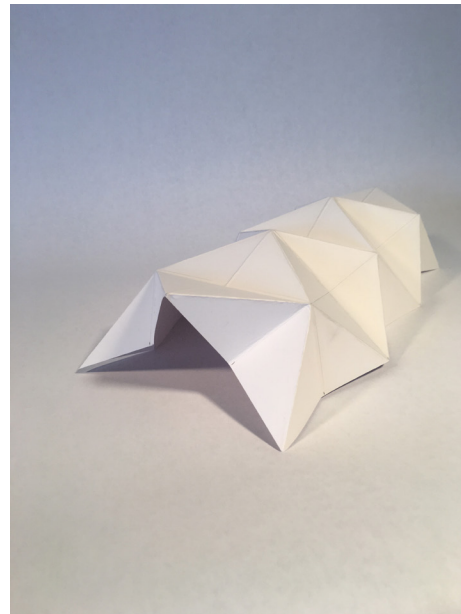
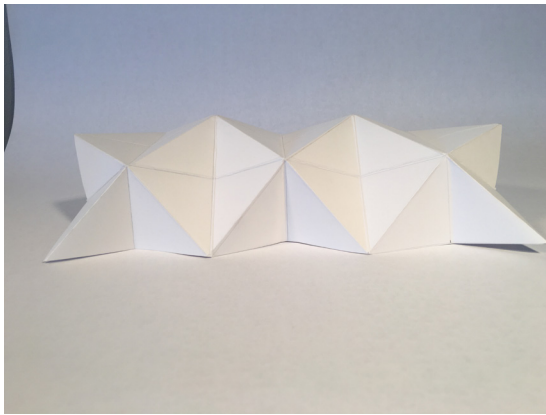


FRONT VIEW



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