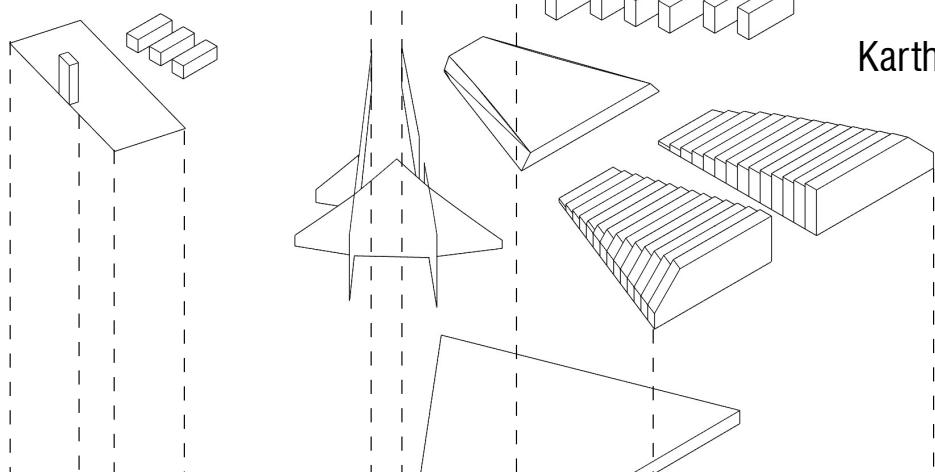


PORTFOLIO

Karthik Pydipally

2025



Karthik Pydipally

571-530-9020
pydipally.karthik@gmail.com
www.linkedin.com/in/KarthikPydipally
karthikpydipally.github.io



ABOUT ME

Karthik Pydipally was born in Massachusetts and grew up there for most of his childhood. He started a hobby with Rubik's cubes. His architectural inspiration started when he first joined Tech Theater in his sophomore year after students were coming back to in-person learning after Covid 19. Although the course was not intentional, he grew attached to it on a personal level. He joined the set team, creating sets, giant platforms, and props for the play and musicals. He enjoyed the people he met and worked with. Alongside them, the long hours and often stressful deadlines didn't seem like hard work because he was doing something that he loved and with a team that shared his passion. It was gratifying to see the efforts culminate in an actual stage production. He gained respect in the following years and became the set lead and designer. His love for building and designing would later contribute to achieving the BVawards's "The Best Musical" award.

To Karthik each building conveys a unique narrative, revealing the dreams, beliefs, and struggles of those who designed, built, or lived there. Looking at a building is more like looking at a person you've just met. Looking at the buildings, numerous questions flow into his mind; "Stare at the architect's handiwork. The coats of paint, scars on the walls. The dents on the roof. How has this building stood so long? What about the people who lived or worked there? Is it a family of four? A loving, engaged couple? Or, are two college seniors sharing the rent?" Together, with his father, they built a graffiti wall in our basement. We nailed wood planks and stretched canvas over the wood. He painted, drew, cut, and sprayed anything that inspired him. When finished, he can remove the canvas and stretch a new one. He is now studying in his first year of architecture at New Jersey Institute of Technology.

WORK EXPERIENCE

Launch Trampoline Park, Herndon, VA

Go-Cart Attendant, Court Monitor, & Cashier

Jan 2024 – Aug 2024

- Supervised go-cart operations to ensure safety and enjoyment for over 200 guests daily, using safety protocols and equipment checks.

- Monitored trampoline courts to enforce safety rules and prevent injuries, resulting in a 15% decrease in incidents.

- Processed transactions efficiently as a cashier, handling an average of \$1,500 in sales per shift using POS systems.

- Assisted guests with questions and concerns, providing exceptional customer service and enhancing overall guest satisfaction.

- Maintained cleanliness and organization of the facility, ensuring a welcoming environment for all visitors.

EDUCATION

Oakton Highschool Vienna, VA -

Grad May 2024

New Jersey Institute of Technology -

Exp Grad May 2029

SKILLS

Software: Autodesk 3ds Max, Autodesk Inventor, Adobe Photoshop, Revit, Rhino 3D

Lab Skills: Architectural Drawings, & Floorplans

CONTENTS

01

ELEMENTRY SCHOOL

PG 04

02

EX7: IRON FLOWER

PG 08

03

GENETIC MUTATION

PG 12

04

GRASSHOPPER WORK

PG 16

05

PRECEDENT ANALYSIS

PG 18

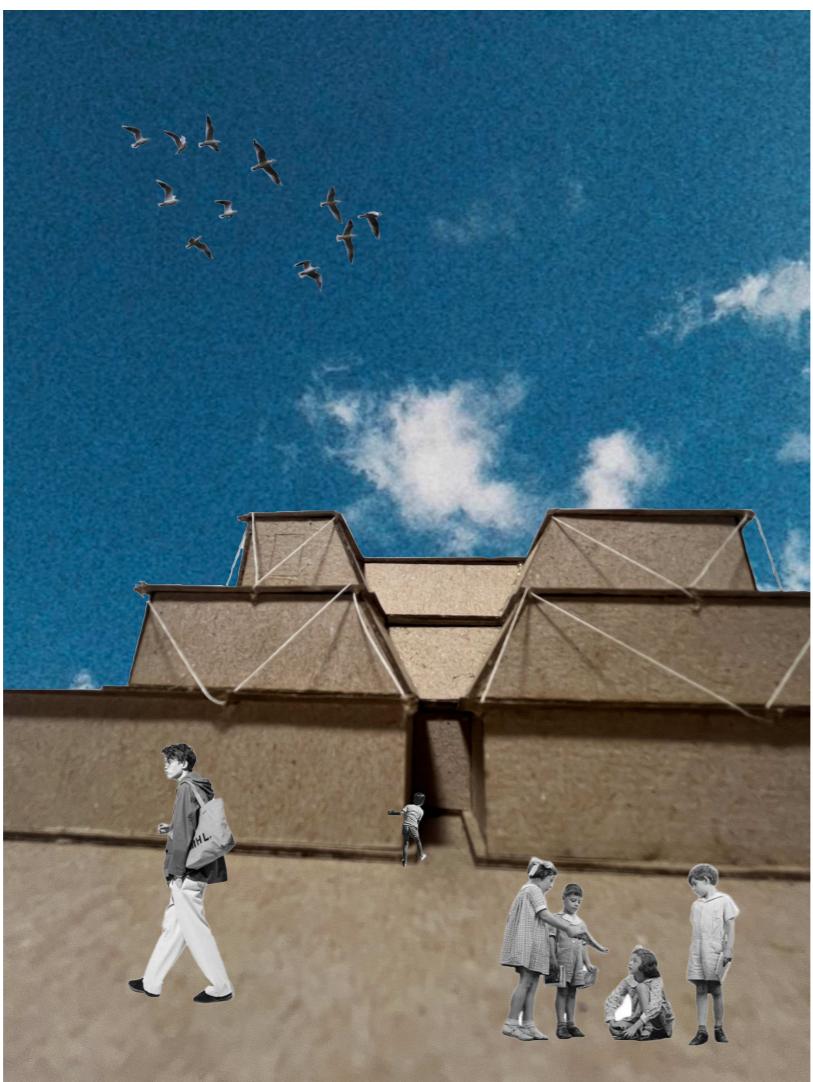
06

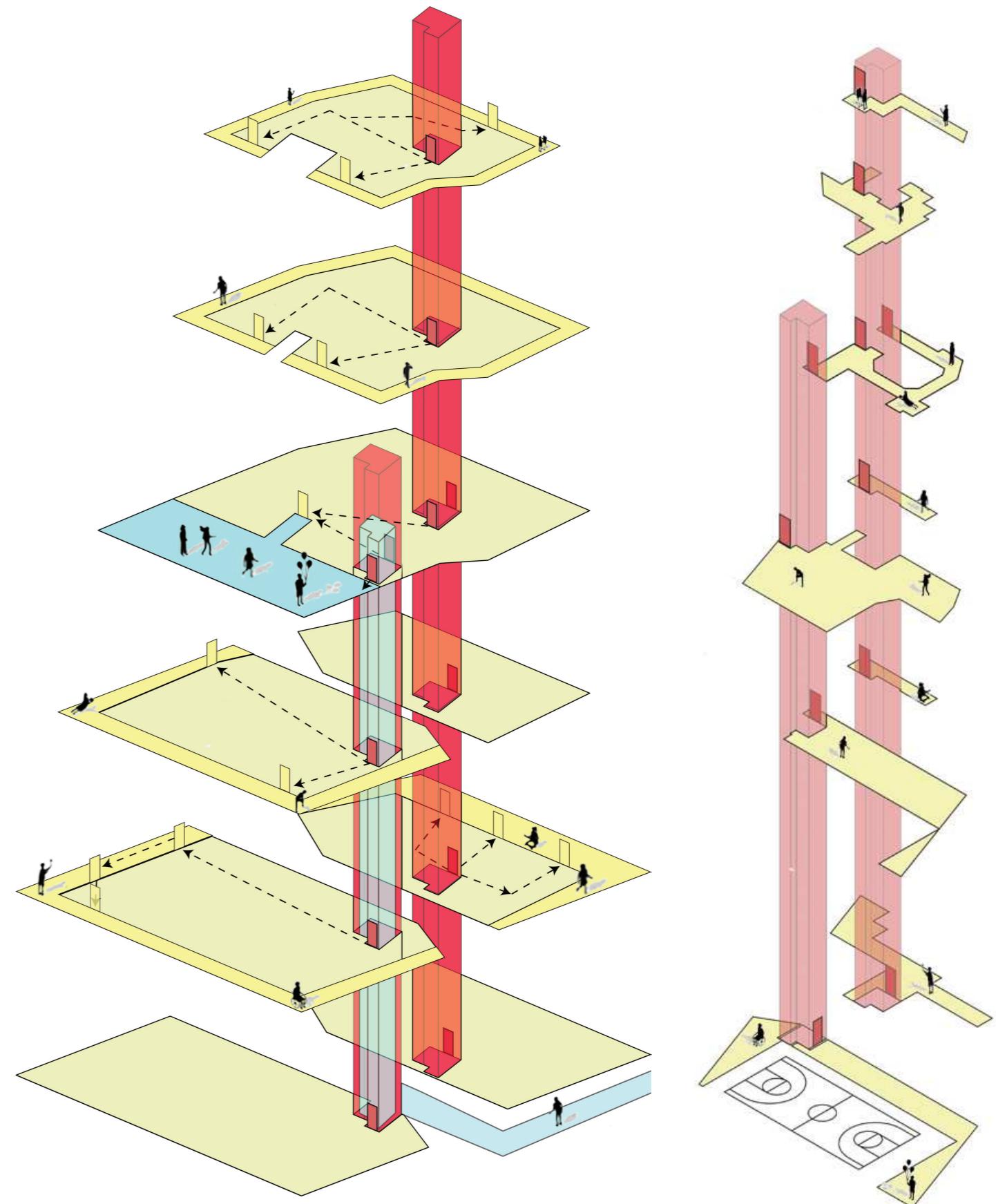
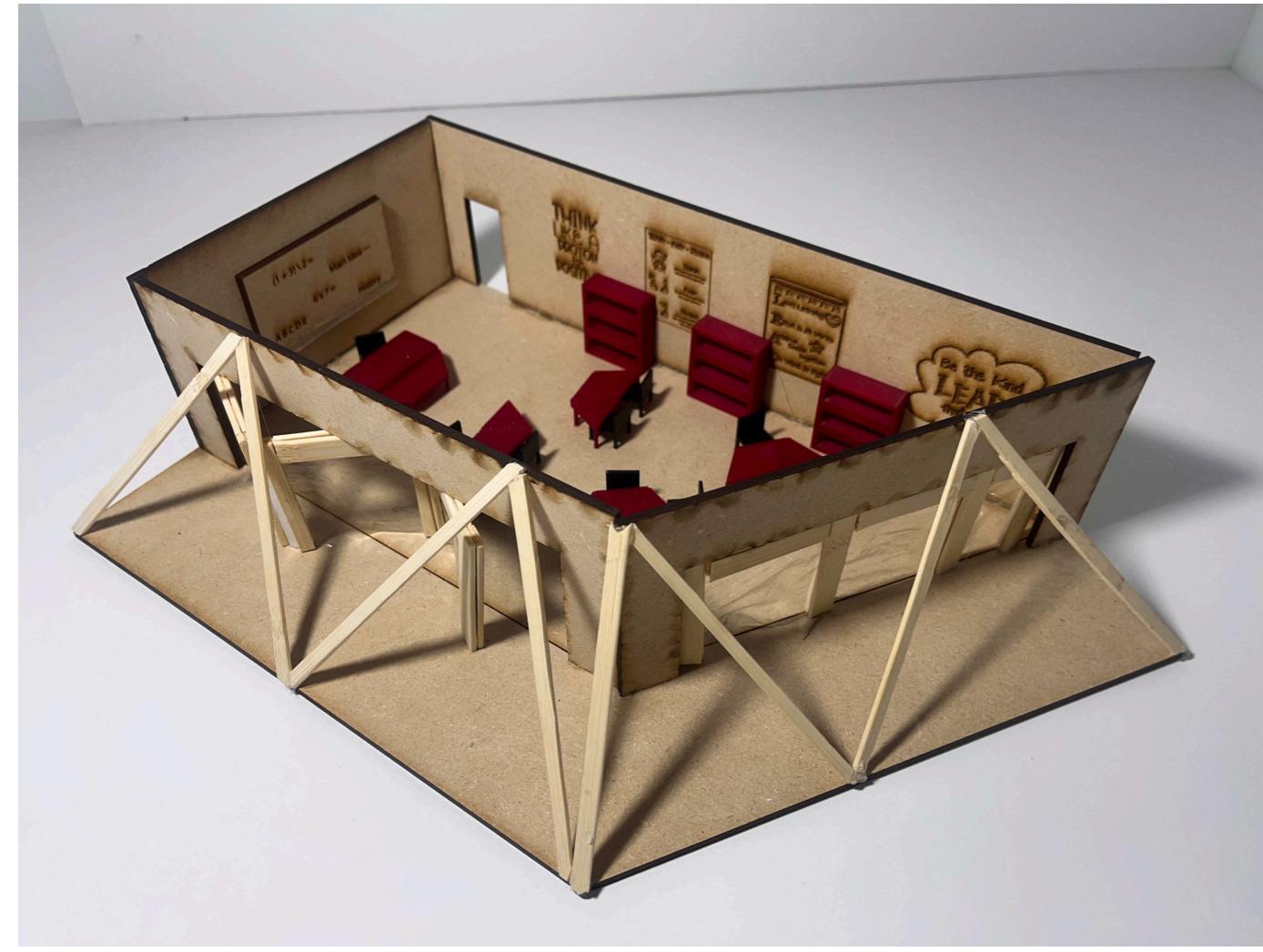
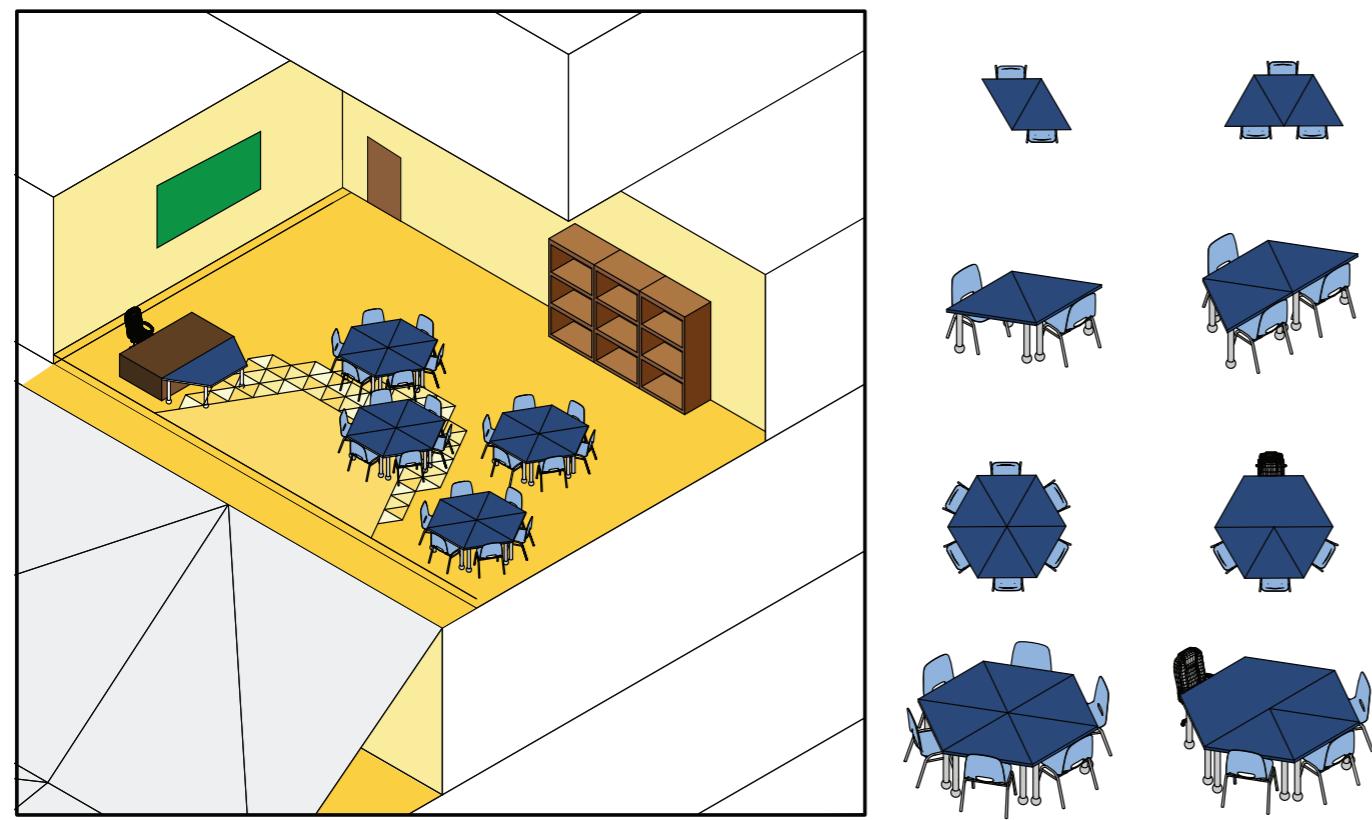
MODEL MAKING

PG 22

ELEMENTRY SCHOOL

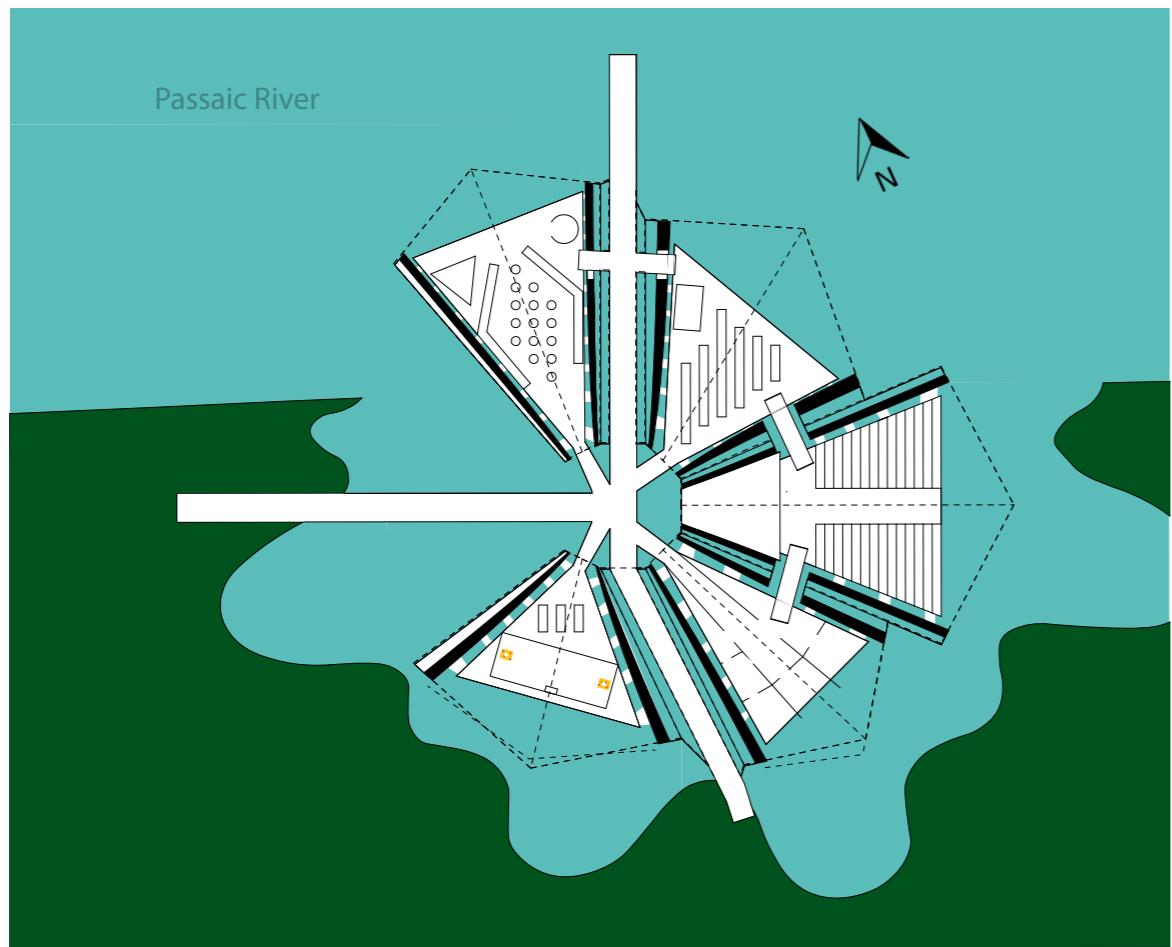
The project asks students to design a new Elementary school for Newark. The project is sited on a plot of land adjacent to the existing Broad St. train station in Newark. The goal of this assignment is to provoke deeper inquiry about site context intandem with the initial development of the building mass. Students will refine their ideas around form, site, program, pedagogy, and landscape, advancing their conceptual proposals into resolved architectural schemes. The work should address both instructional and non-instructional spaces, define a clear pedagogical narrative, and integrate a new community-oriented program.

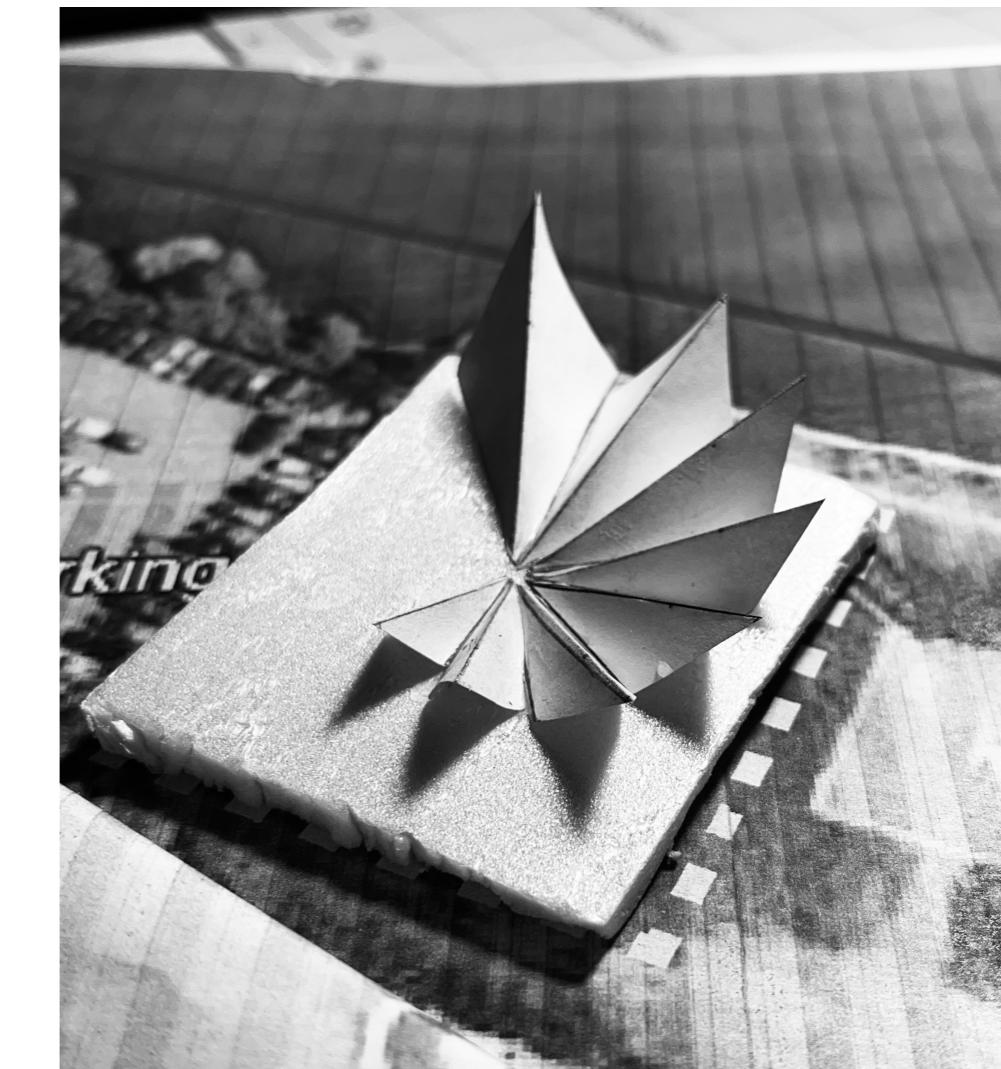
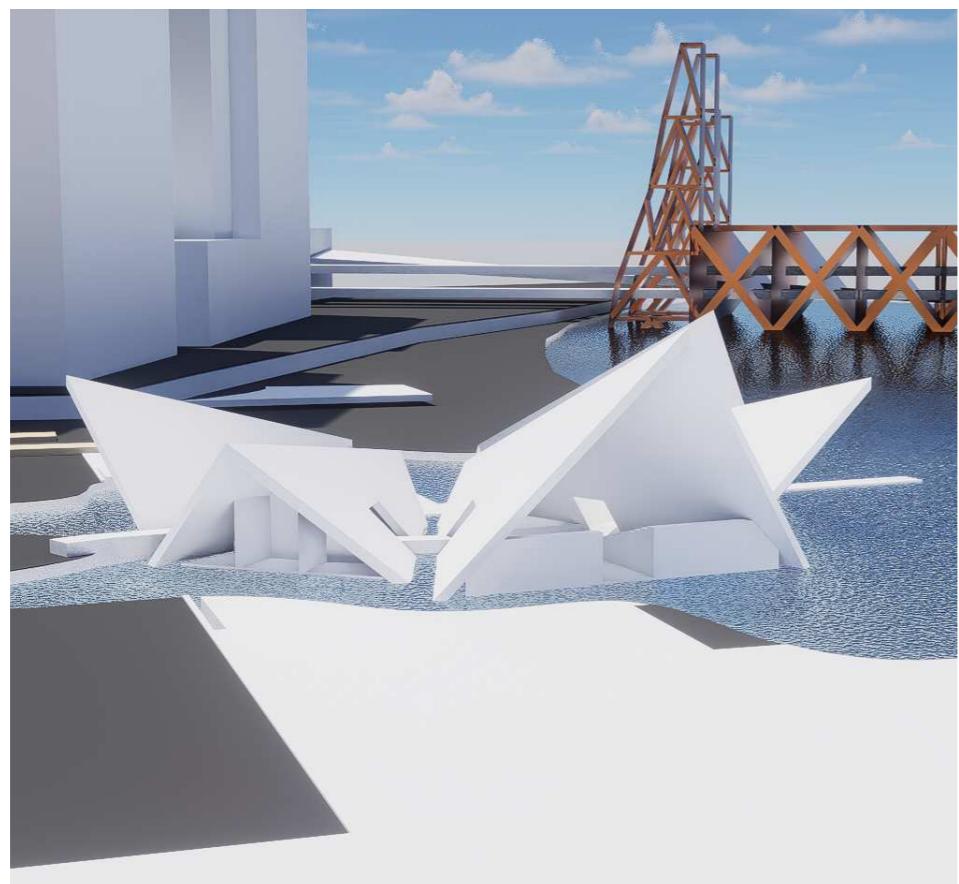
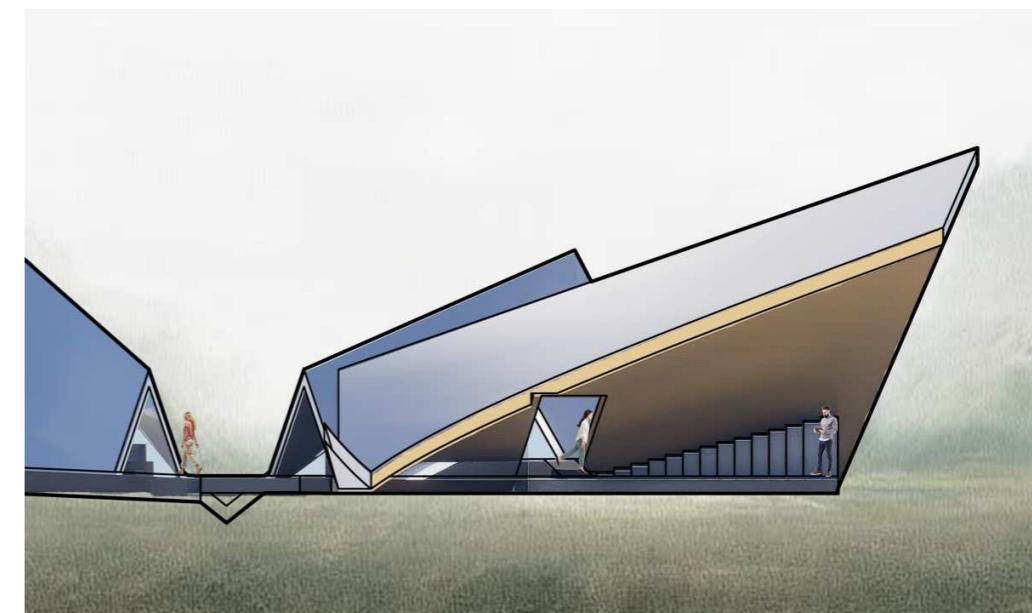
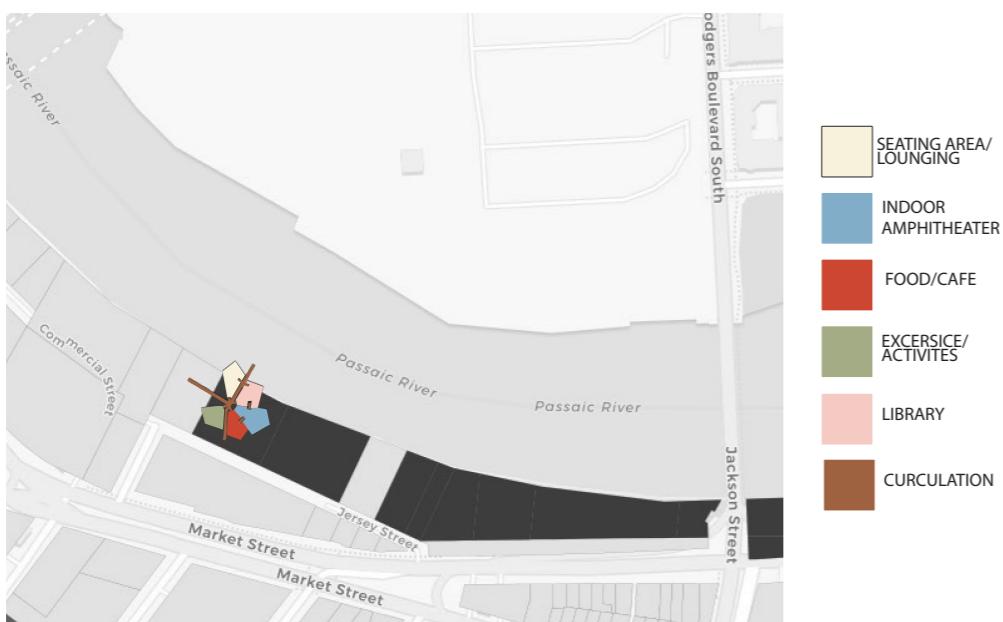




IRON FLOWER

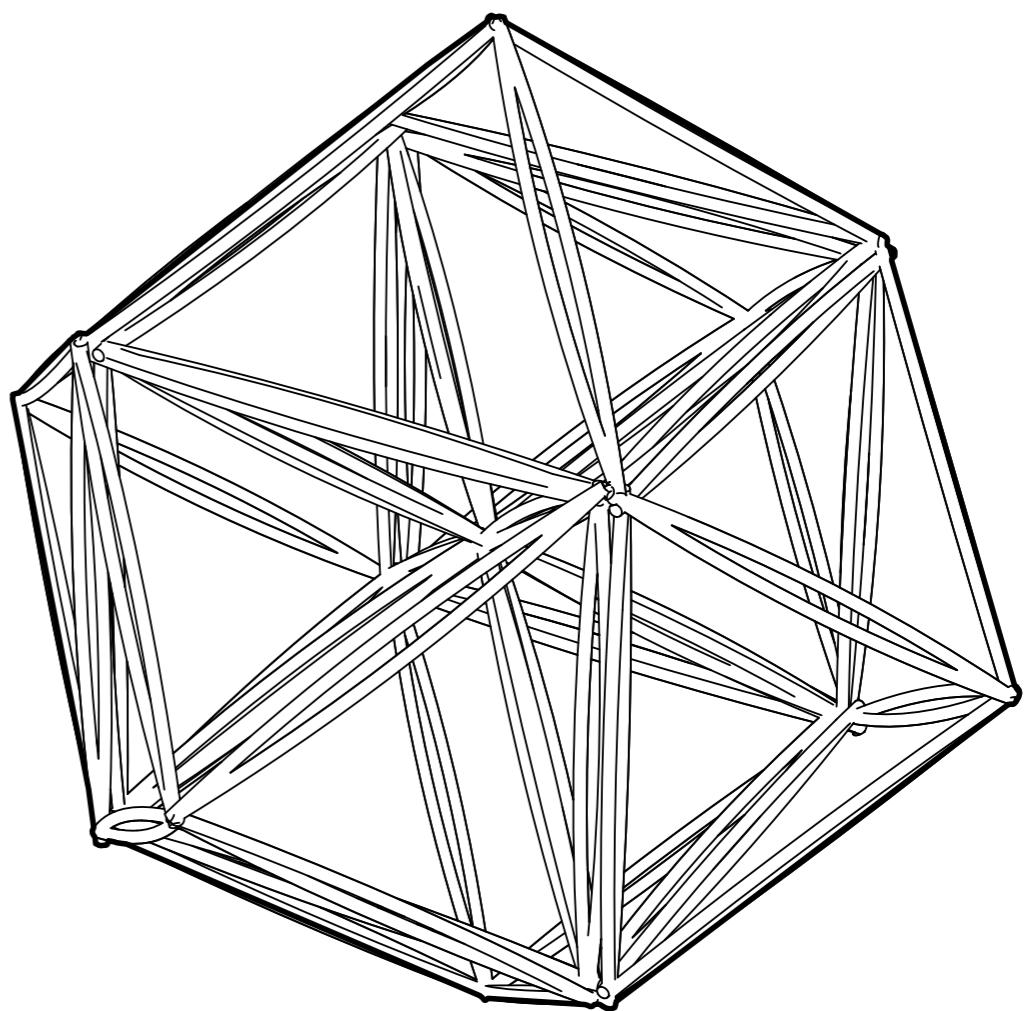
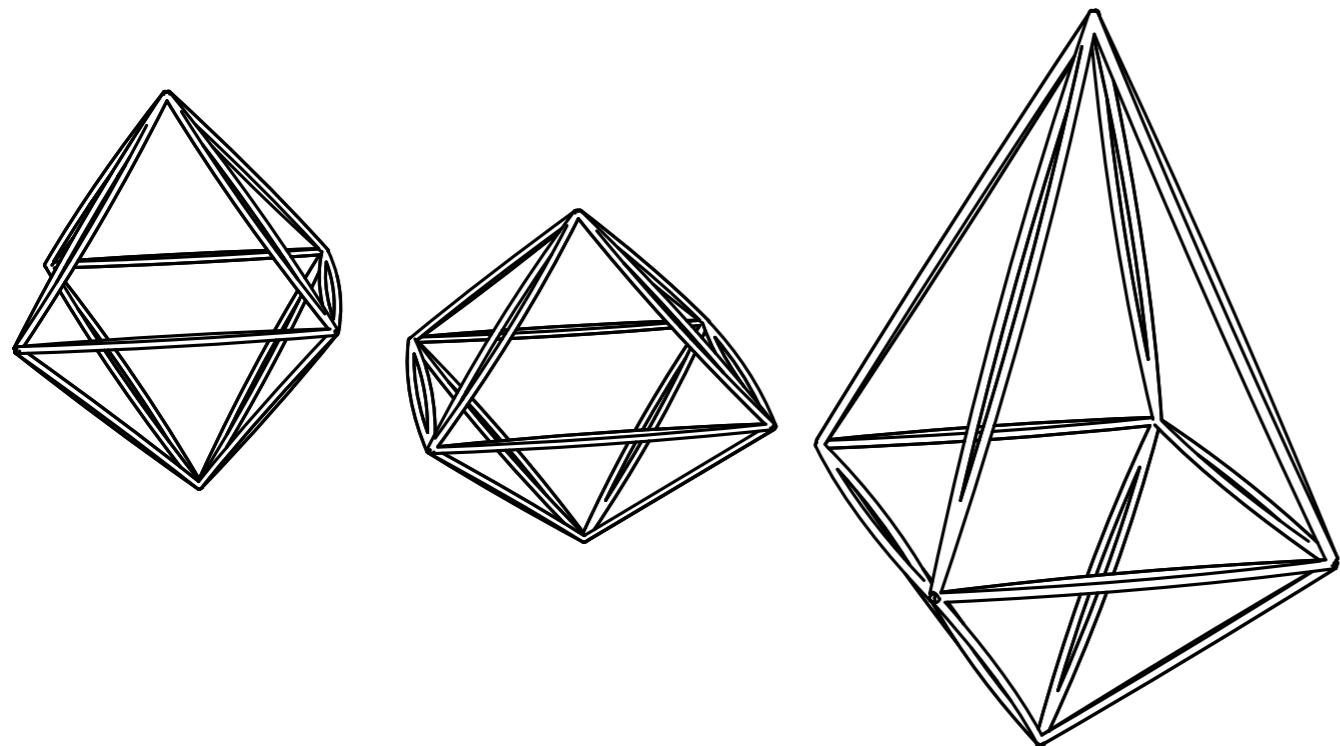
IRON FLOWER is a vibrant, open-air community hub designed to revitalize an underutilized space along Newark's riverside. Blending nature, culture, and commerce, the project fosters local engagement through a marketplace, library lounge, performance areas, and green spaces. With stunning views of the Passaic River, it creates a welcoming environment for relaxation, learning, and social connection. Supporting small businesses, public art, and sustainable design, IRON FLOWER celebrates Newark's rich history while shaping a dynamic and inclusive future.

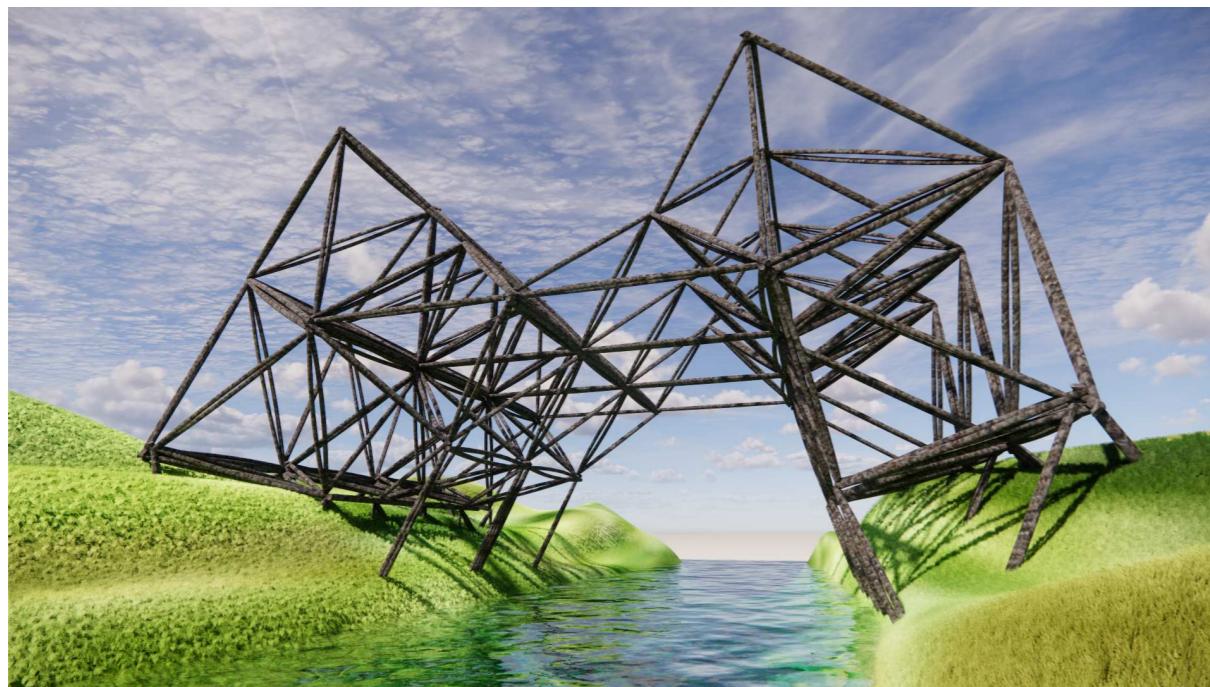




GENETIC MUTATION

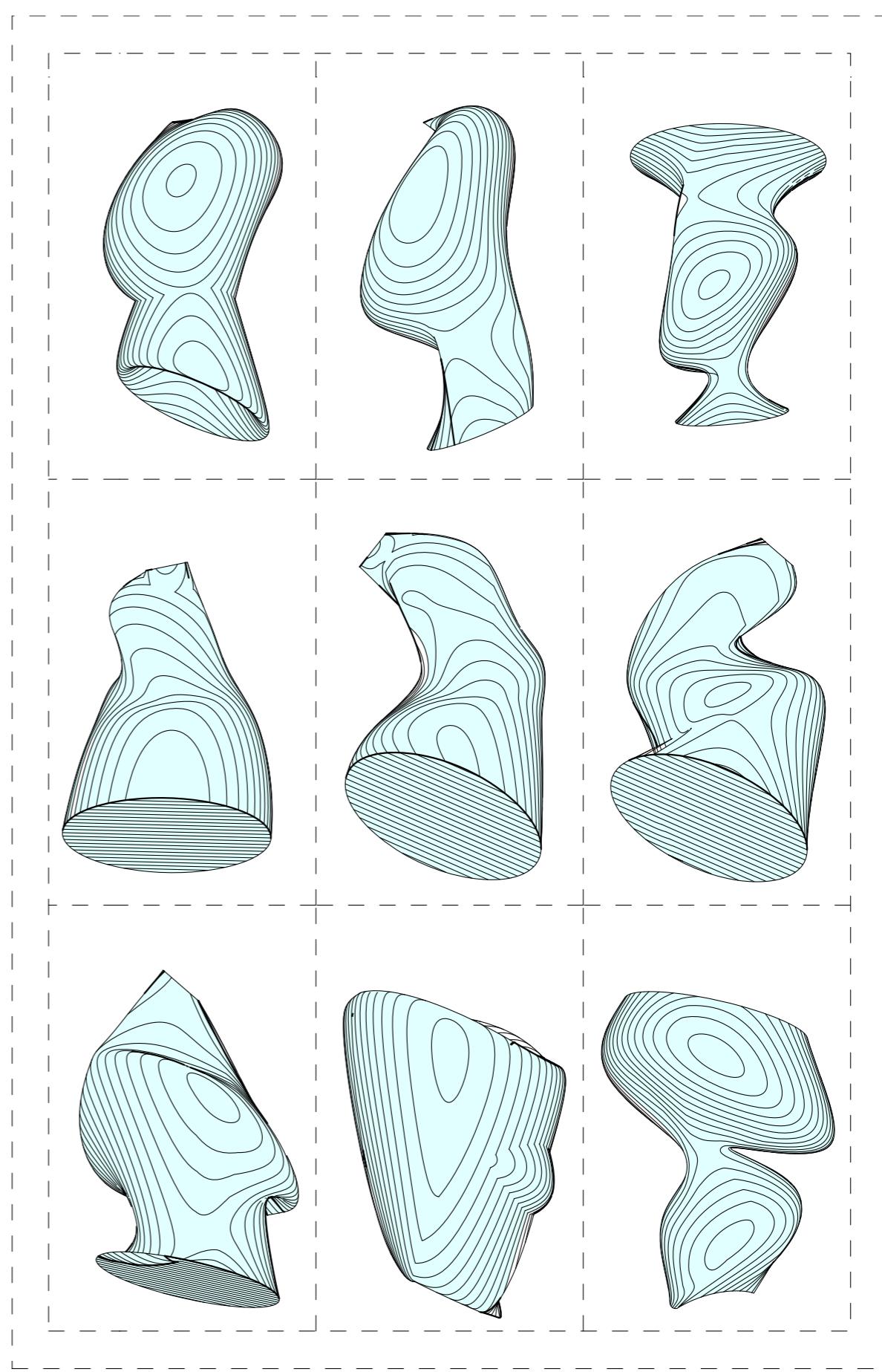
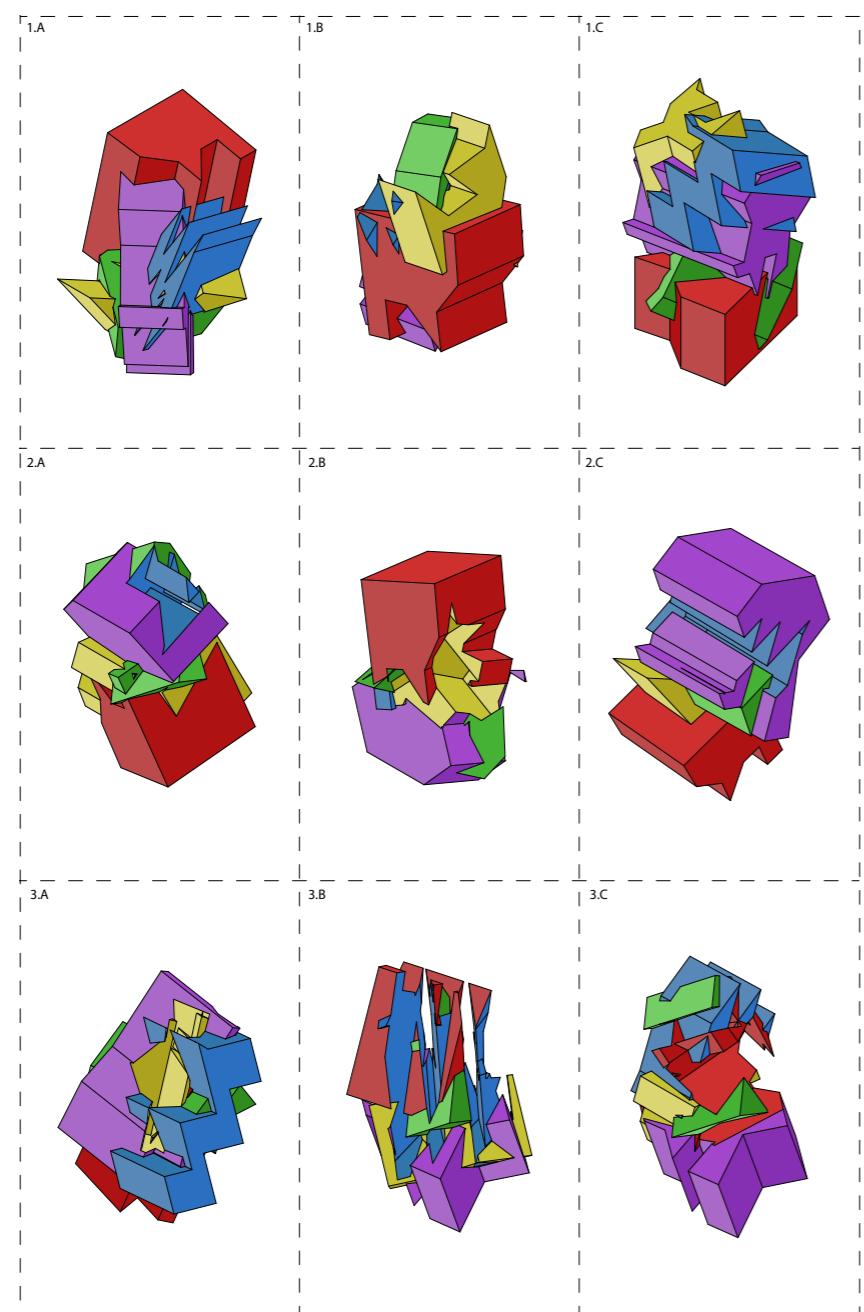
Program: This project explores the fabrication of a 12-inch Platonic Solid using limited material quantities, challenging students to investigate structural, spatial, and organizational principles through the relationship between geometry, material behavior, part to whole hierarchies, and fabrication techniques.





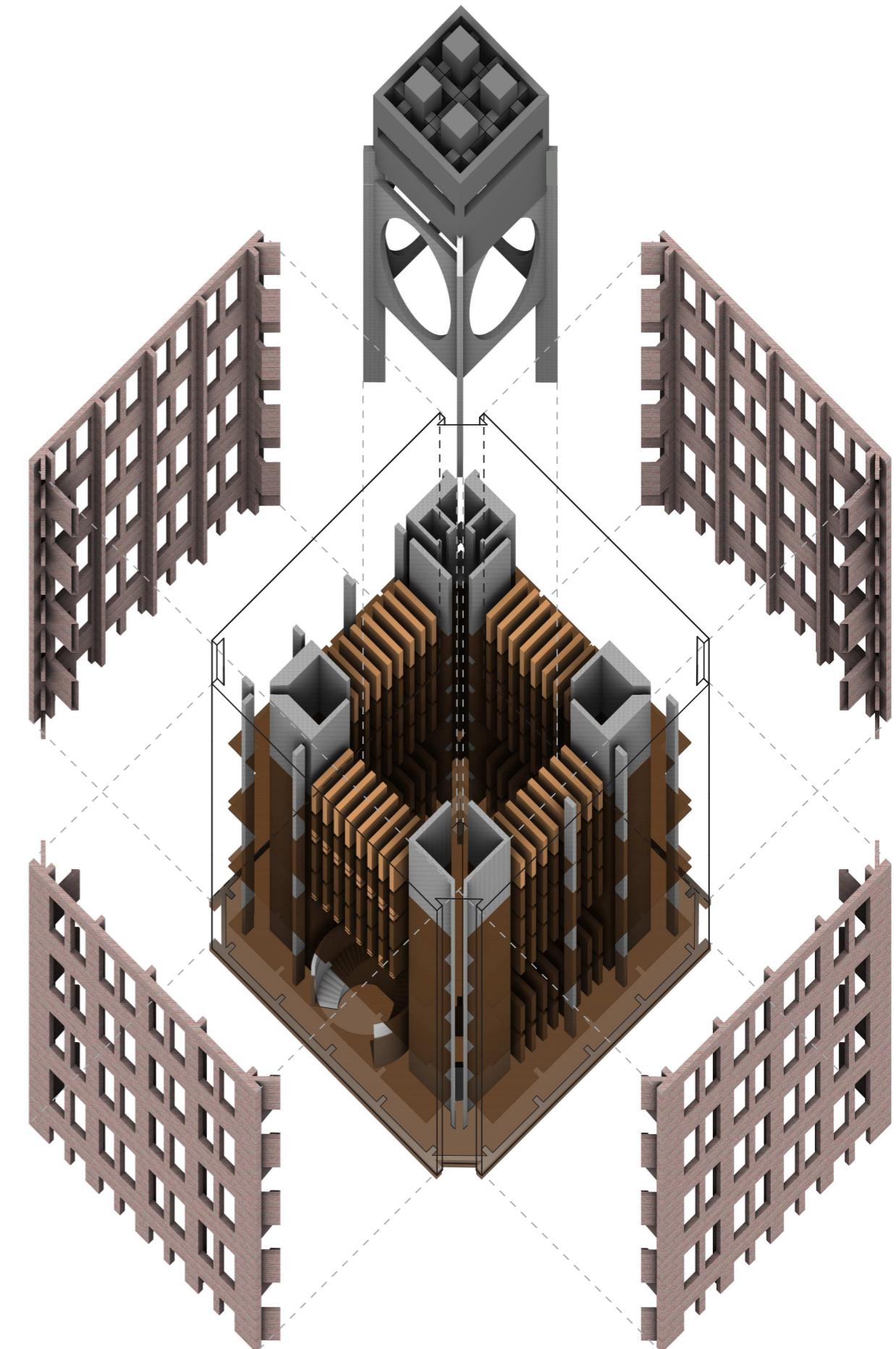
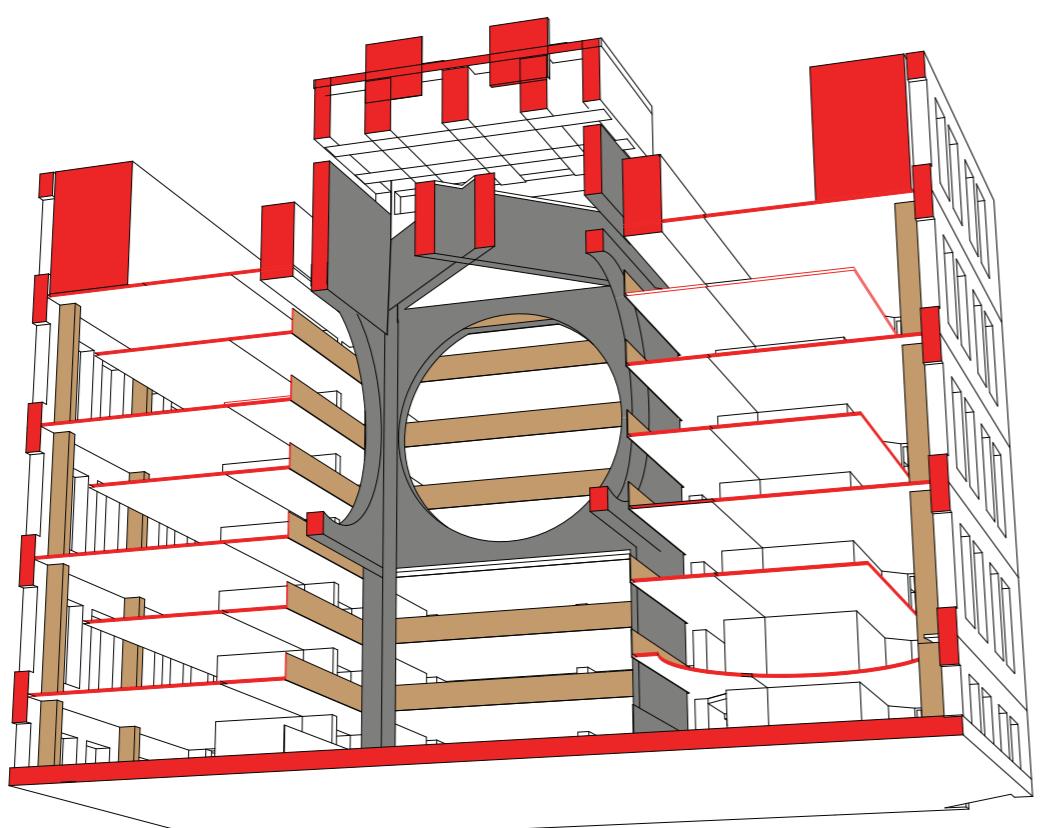
GRASSHOPPER WORK

Students are expected to develop an understanding of how architectural precedents inform design thinking. Students will conduct a focused analysis of one precedent



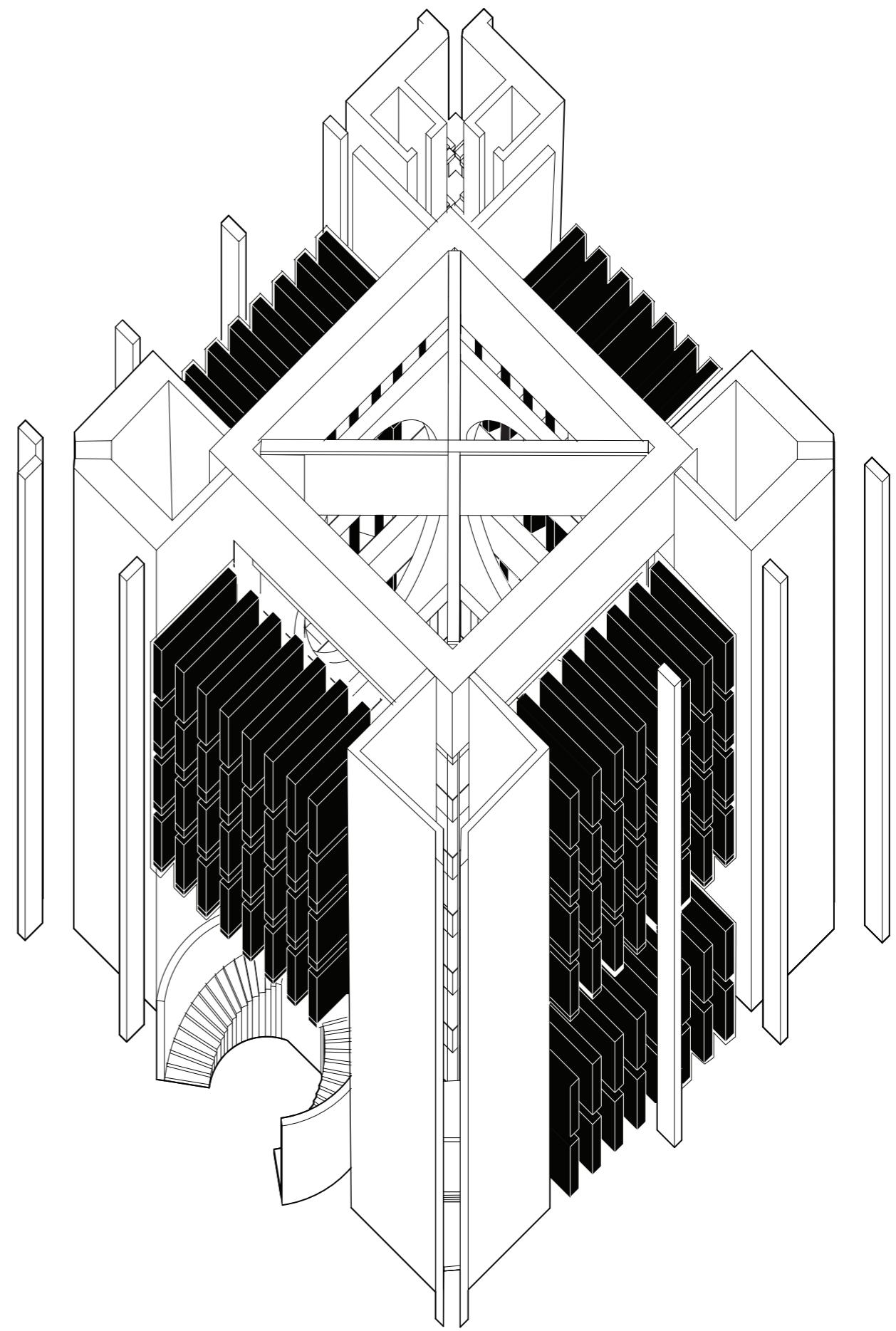
PRECEDENT ANALYSIS

Students are expected to develop an understanding of how architectural precedents inform design thinking. Students will conduct a focused analysis of one precedent and critically assess its spatial, social, and environmental qualities through writing, drawing, model-making. This study will prepare you to draw upon precedents as active design tools and to research and describe complex formal conditions.



Phillips Exeter Academy Library
Louis Kahn 1972

Exploded Axon



MODEL MAKING

Personal work practicing model making using different techniques of cutting, assembling, and detailing using different materials. Built this house based on a Lowes house plan book. I focused on learning to precisely cut walls, accounting for wall thickness, refining small components such as window openings, porch elements. Throughout the process, I applied problem-solving skills to ensure clean joins, cohesion between different materials, and a strong visual presentation. The model communicates both the conceptual form of the house and highlighting my craftsmanship, and ability to bring design ideas to life through physical modeling.



