ARCHITECTURE PORTFOLIO

MADELYN WRIGHT

| ARCHITECTURE STUDENT |



ABOUT ME

I'm a creative and curious person who loves turning ideas into something tangible. Architecture allows me to combine my interests in art, design, problem-solving, and storytelling while constantly challenging me to see things from a new perspective. I'm inspired by the details that make a space feel personal, meaningful, and uniquely its own.

ARCHITECTURAL 1/4TH SCALE MODEL

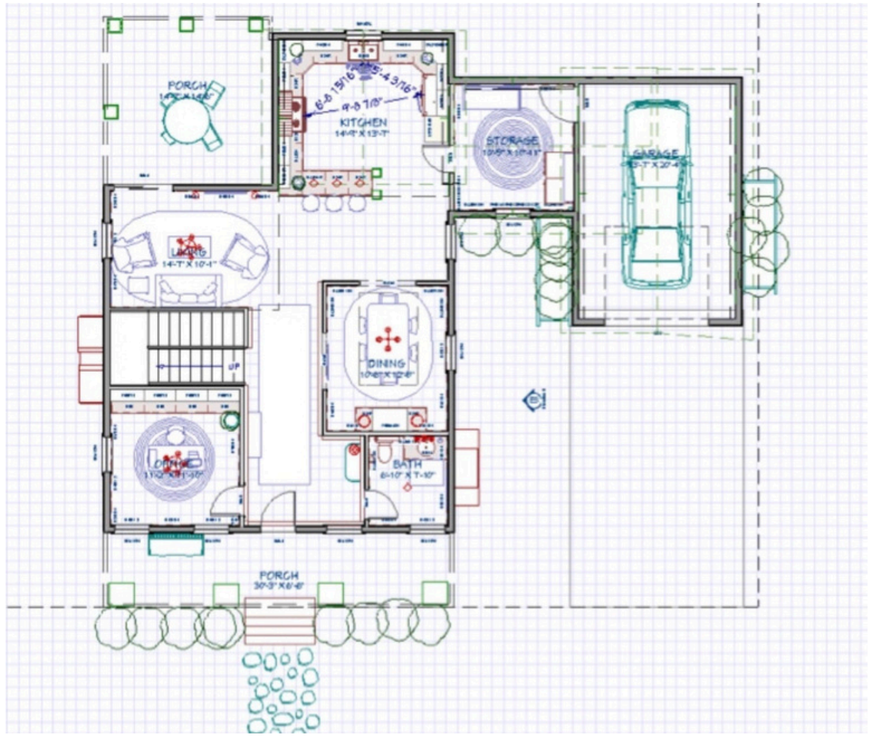
Design: Colonial Greek Revival



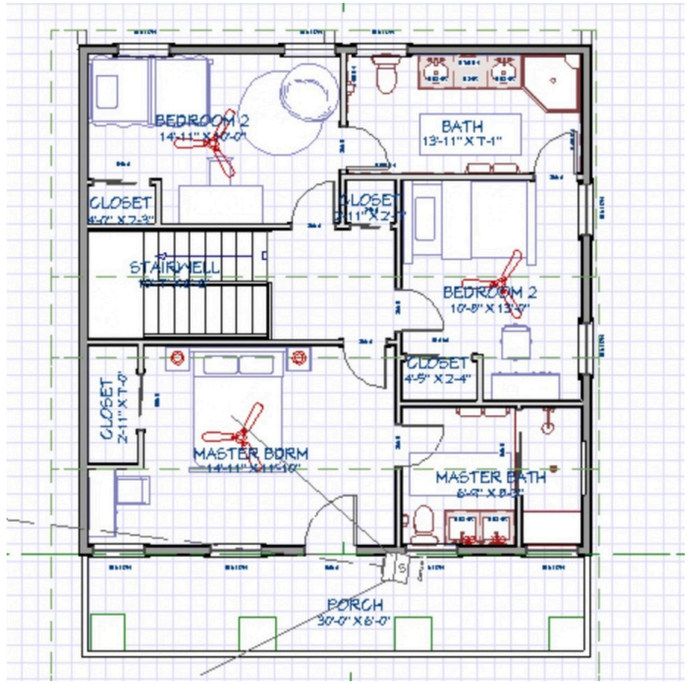


During my junior year, I spent over 250 hours designing, constructing, and modeling this home to enter the Connecticut Home Show Competition. My goal was to construct a home that fit the harsh requirements of the competition while maintaining a structurally sound design.

CAD CHIEF ARCHITECT
FLOOR PLAN & INTERIORS



First Floor Plan



Second Floor Plan



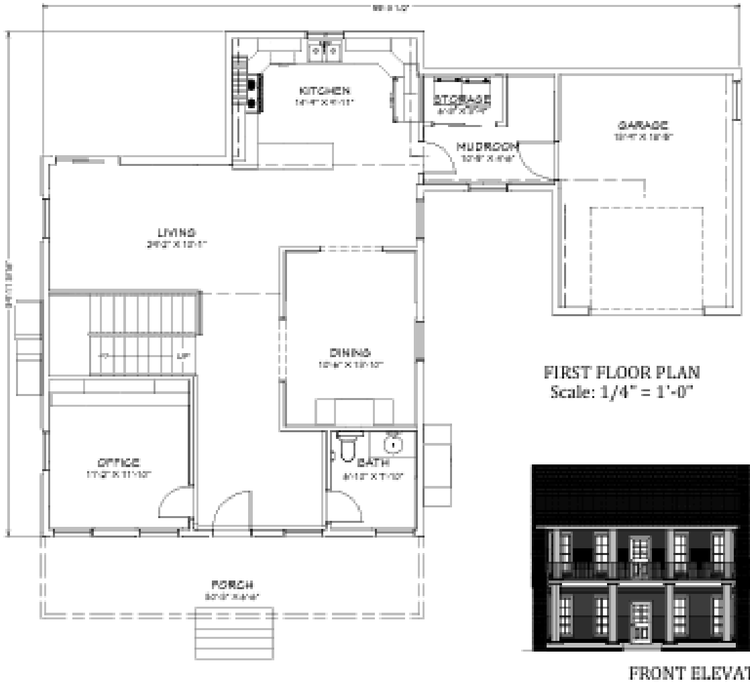
Master Bedroom



Jack and Jill Bathroom

Colonial Greek Revival

CAD CHIEF ARCHITECT PRESENTATION DRAWING



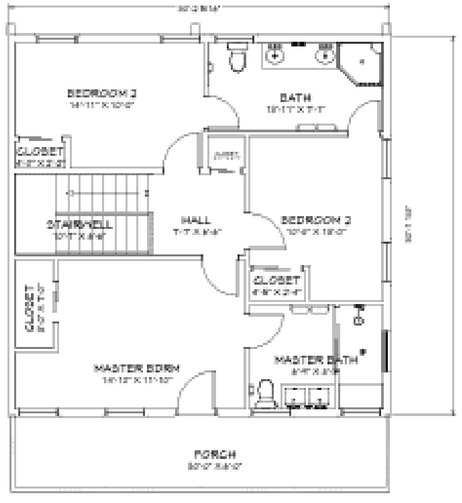
FIRST FLOOR PLAN
Scale: 1/4" = 1'-0"

NAHB's Green Home Building Guidelines

2.4.1
Use recycled-content building materials.
901.1.1
Natural draft furnaces, boilers, or water heaters are not located in conditioned spaces, including
conditioned crawl spaces, unless located in a mechanical room that has an outdoor air source and is sealed and insulated to separate it from the conditioned space(s).
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703.7.3
Passive cooling design features are in accordance with Overhangs which are installed to provide shading on south-facing glazing in accordance with § 703.7.1(7).

FRONT ELEVATION
Scale: 1/8" = 1'-0"

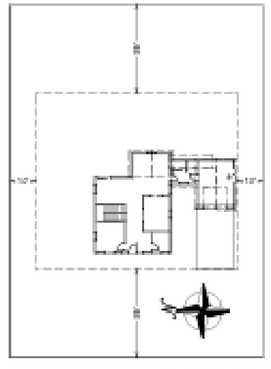




SECOND FLOOR PLAN
Scale: 1/4" = 1'-0"



PERSPECTIVE DRAWING
NOT TO SCALE



PLOT PLAN
Scale: 1" = 20'

Simsbury High School
34 Farms Village Road
Simsbury, Connecticut

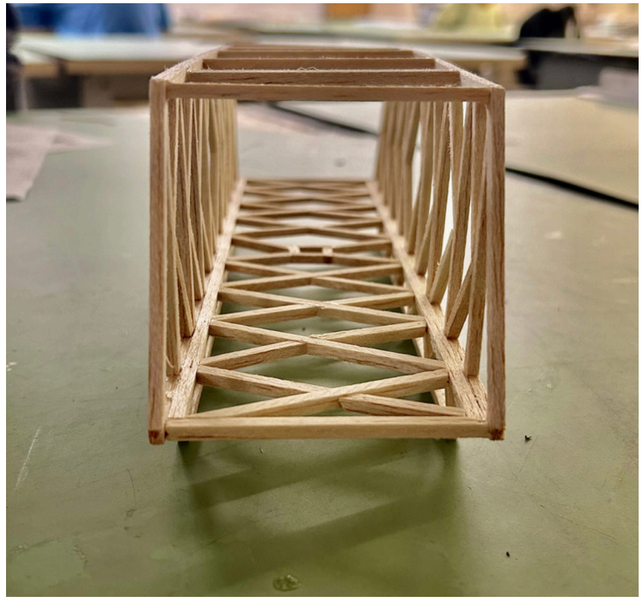
2026 Student Home Design Contest

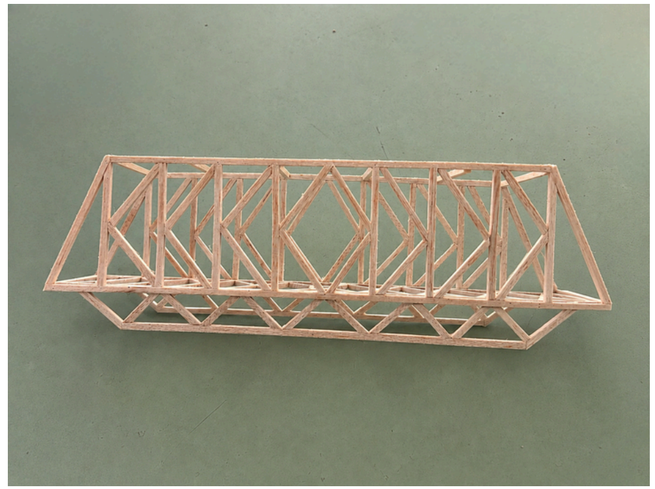
Presentation Drawing
2000 Square Feet
3 Bedrooms, 2 1/2 Baths

Designed By: Maddie Wright

Instructor: Dr. Wendy A. Ku
Signature:



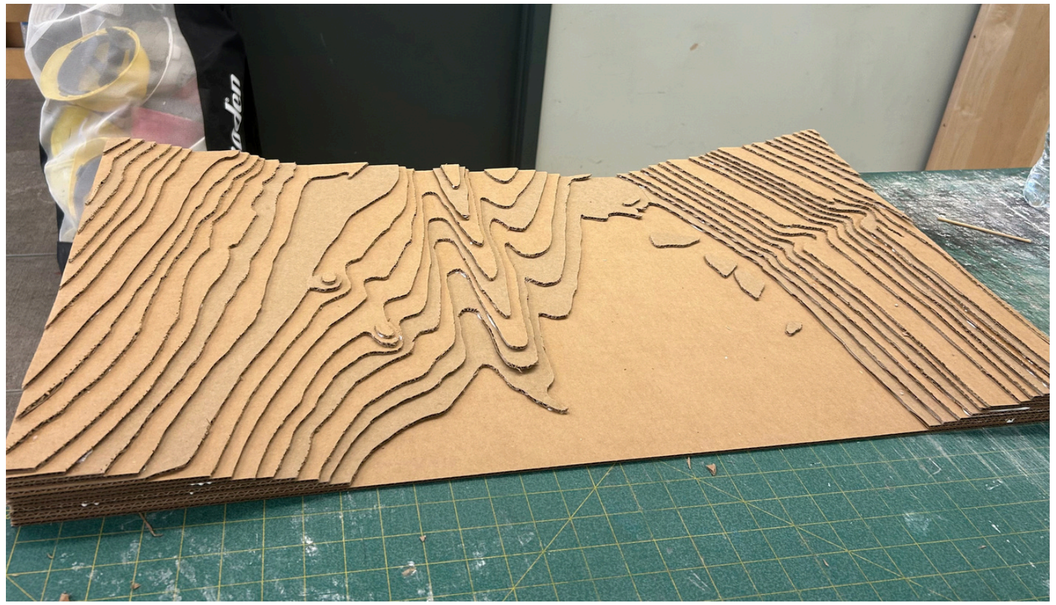




K-Truss Bridge

ARCHITECTURAL STRUCTURES

During my Sophomore year in my Architecture II class, I was asked to design a bridge out of balsam wood to examine how much weight it could support based on the design.





Topographic Model

ARCHITECTURAL STRUCTURES

As for the cardboard topographic model, I replicated this from a site we had examined at the Penn State Architecture & Landscape Architecture camp with groupmates.

CHIEF ARCHITECT RENDERING & 1/8TH SCALE MODEL | A Colonial Modern Farmhouse Design





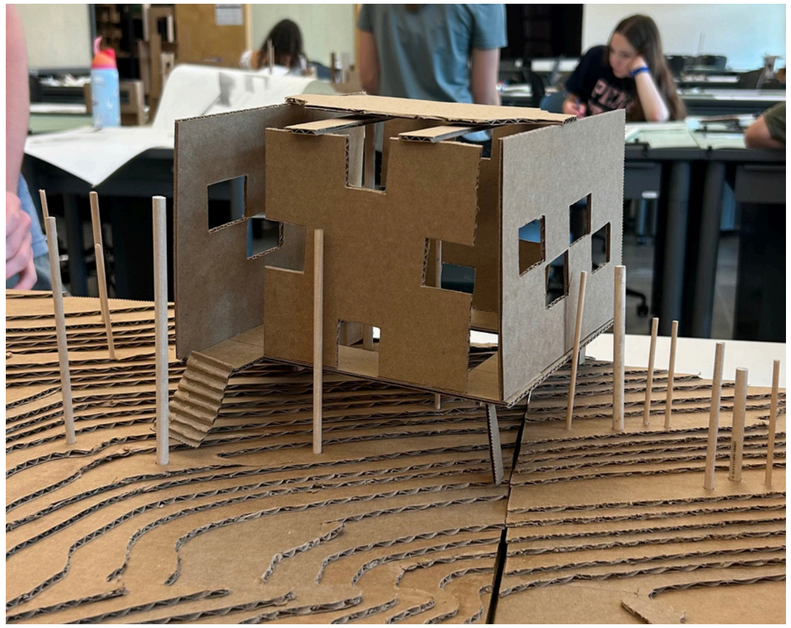


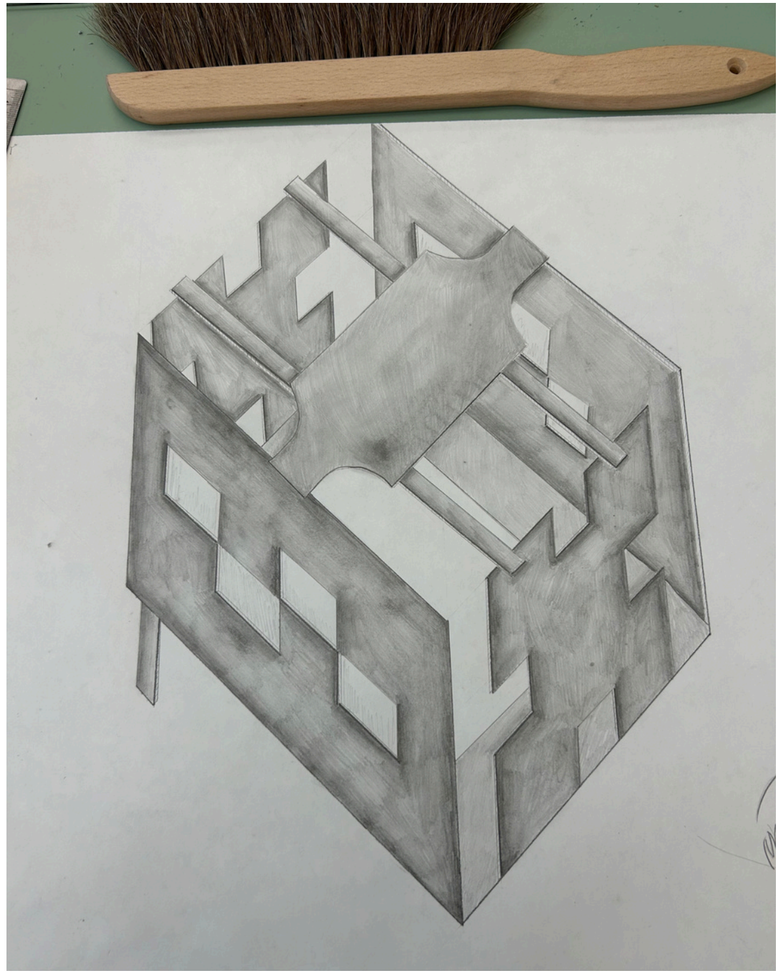


During my Architecture II class, we were asked to design a 1/8th scale model home of our choice in preparation for the 1/4th scale home to be designed the following year in Architecture III (shown in the previous slides). My goal was to create an interesting floor plan while maintaining good flow and a home that captured the effortless beauty of a modern farmhouse.

AXONOMETRIC DRAWING & MODEL

During my time at Penn State Architecture and Landscape Architecture Summer Camp, we were asked to build a cardboard model that was adaptable to both an animal we were assigned and a specific spot we could place our model on site. Later on, we were taught how to draw an axonometric drawing of the models we designed.





CAD CHIEF ARCHITECT
TUSCAN MEDITERRANEAN DESIGN





In my Architecture 3 class, we designed yet another home after building the 1/4th scale model. This time, I wanted to design a more challenging home in comparison to the Greek revival I had built previously. I hoped to accommodate for the hotter temperatures and capture the earth tones of the terrain.

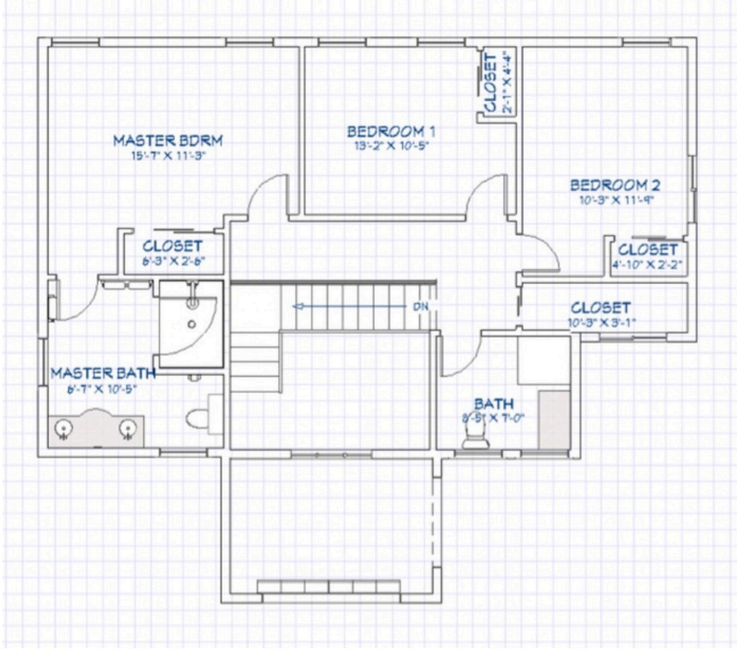
CAD CHIEF ARCHITECT FLOOR PLAN & INTERIORS | Tuscan Mediterranean Villa



Master Bathroom

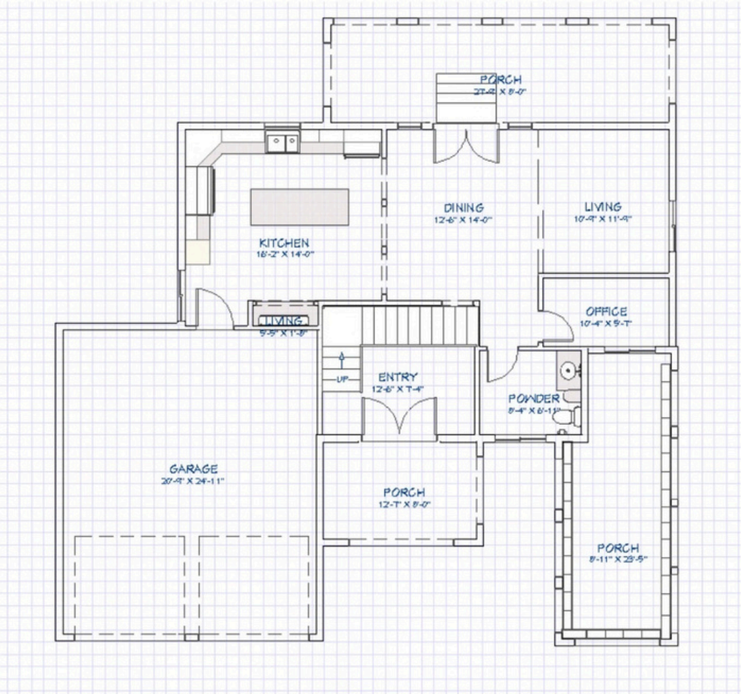


Kitchen

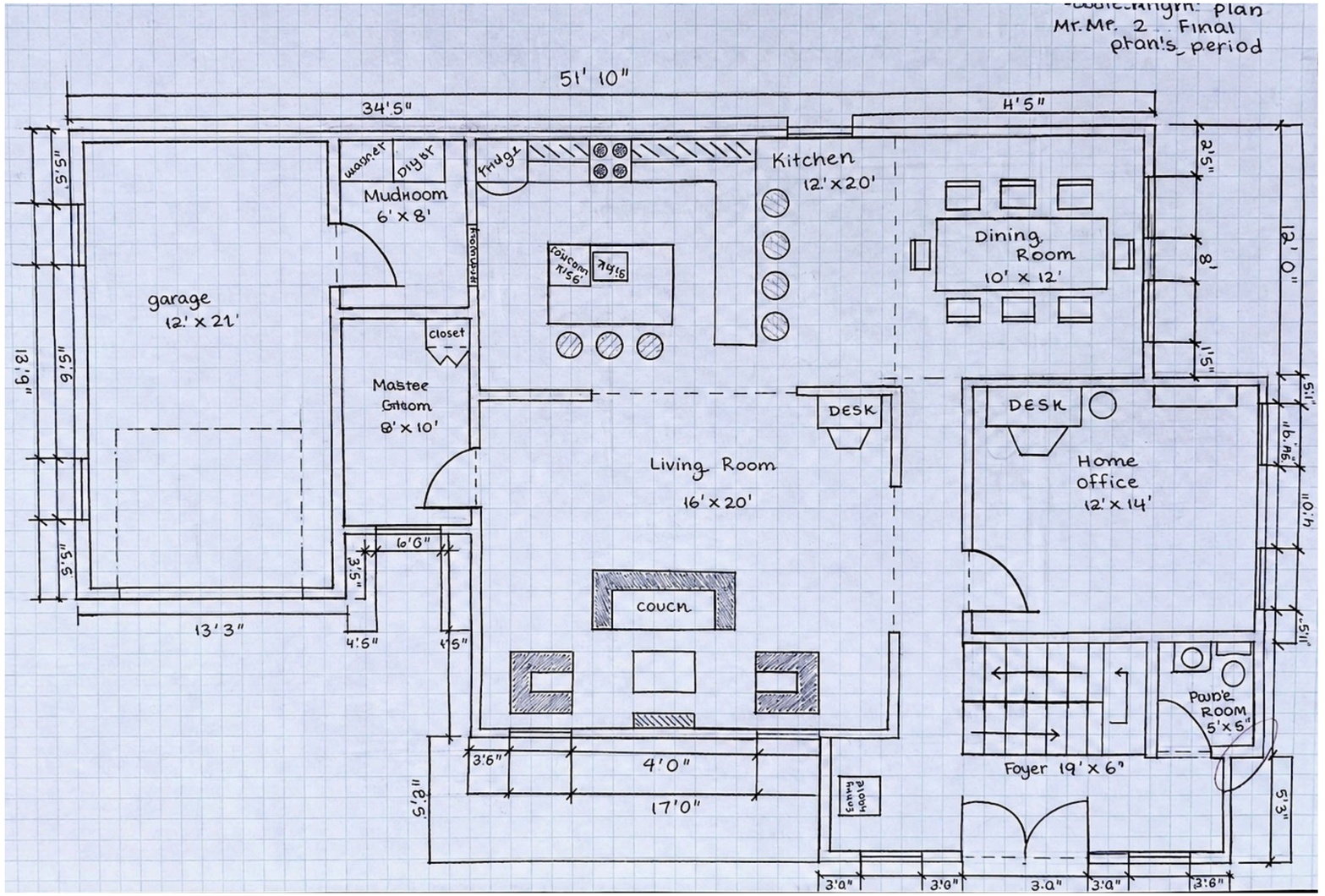


Second Floor Plan

First Floor Plan

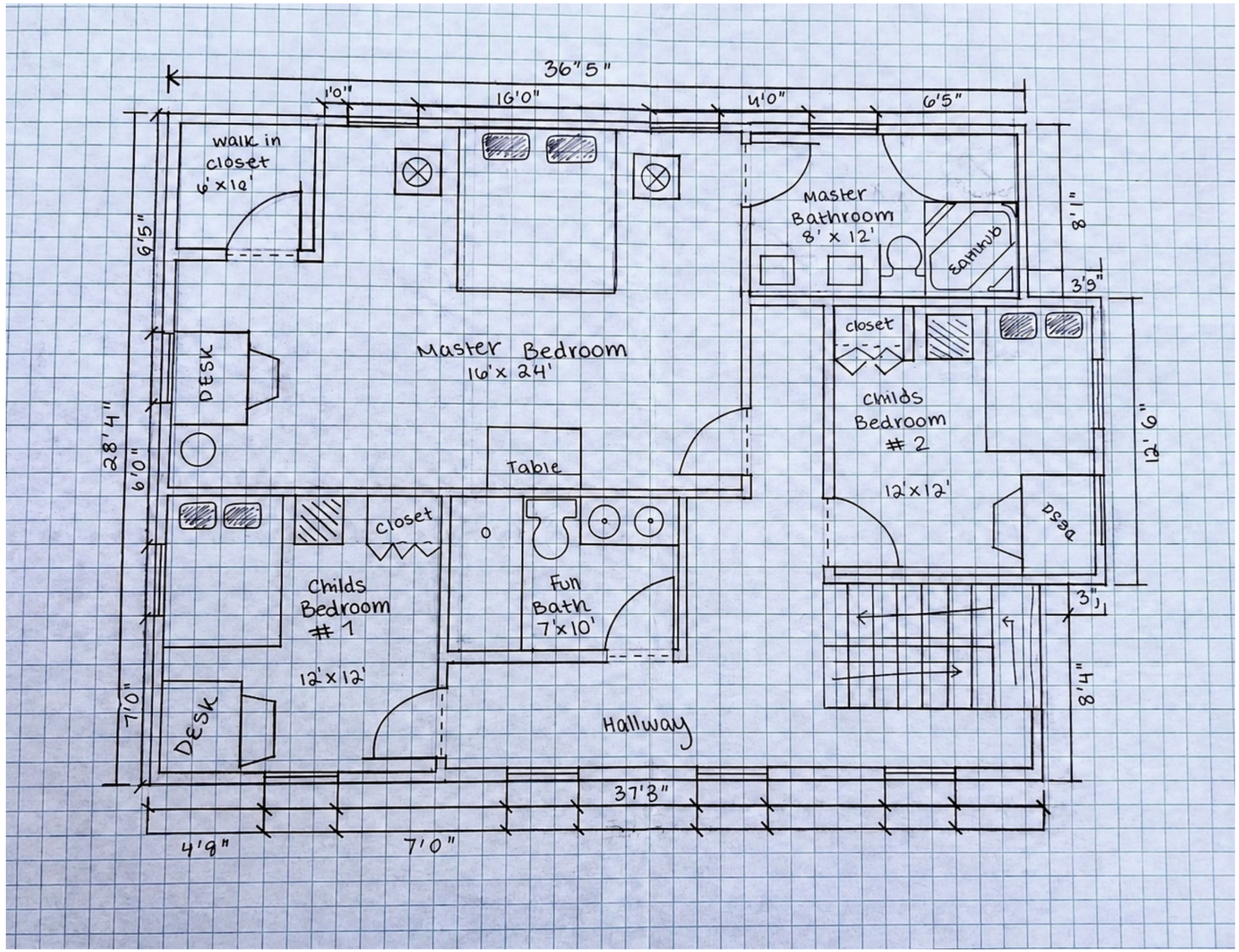


FLOOR PLAN & ELEVATION DRAWINGS



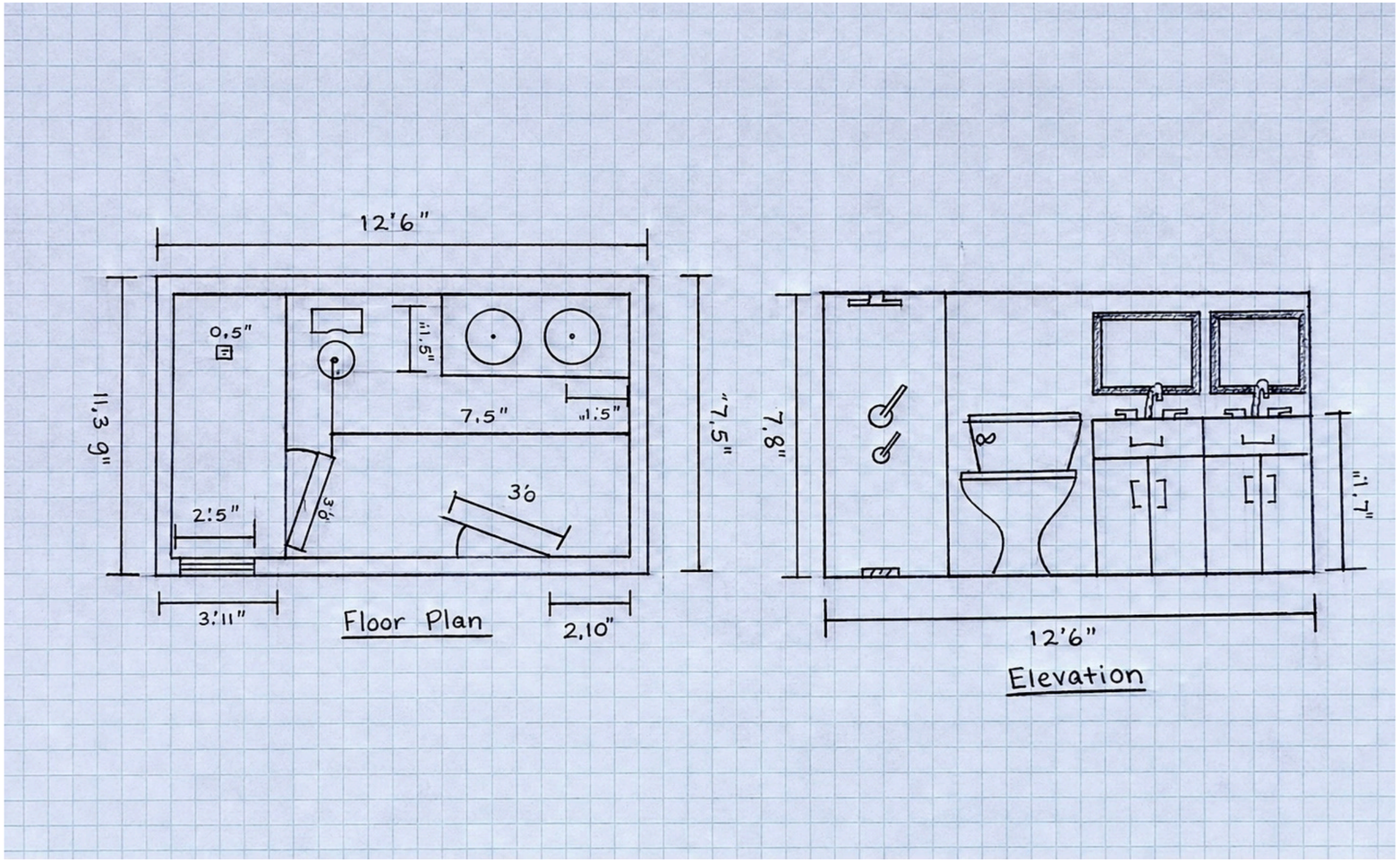
This first-floor plan was designed as part of the same residential project in Architecture II. The plan incorporates a kitchen, dining room, living room, home office, gym, pantry, mudroom, powder room, foyer and garage.

FLOOR PLAN & ELEVATION DRAWINGS



This residential floor plan was developed as part of the same larger home-design project in Architecture II. I focused on creating an organized second-floor layout with a master suite, children's bedrooms, bathrooms, closets, and circulation spaces.

FLOOR PLAN & ELEVATION DRAWINGS



This drawing explores the design of a residential bathroom through both a floor plan and an elevation. I developed the placement of fixtures, cabinetry, doors, and interior elements while considering spatial organization and functionality.

SKETCHING

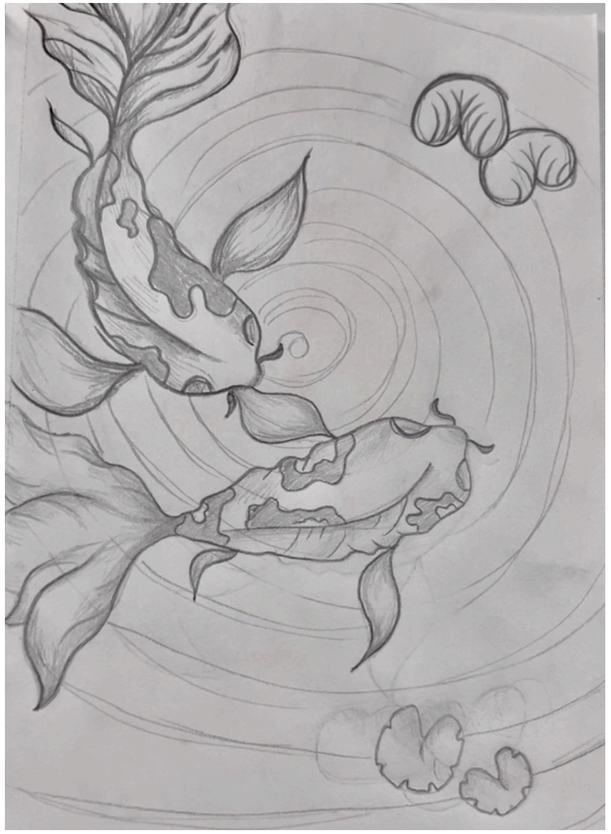
Ballet Slipper





A Bunny

Koi Fish Pond





Dirty Martini

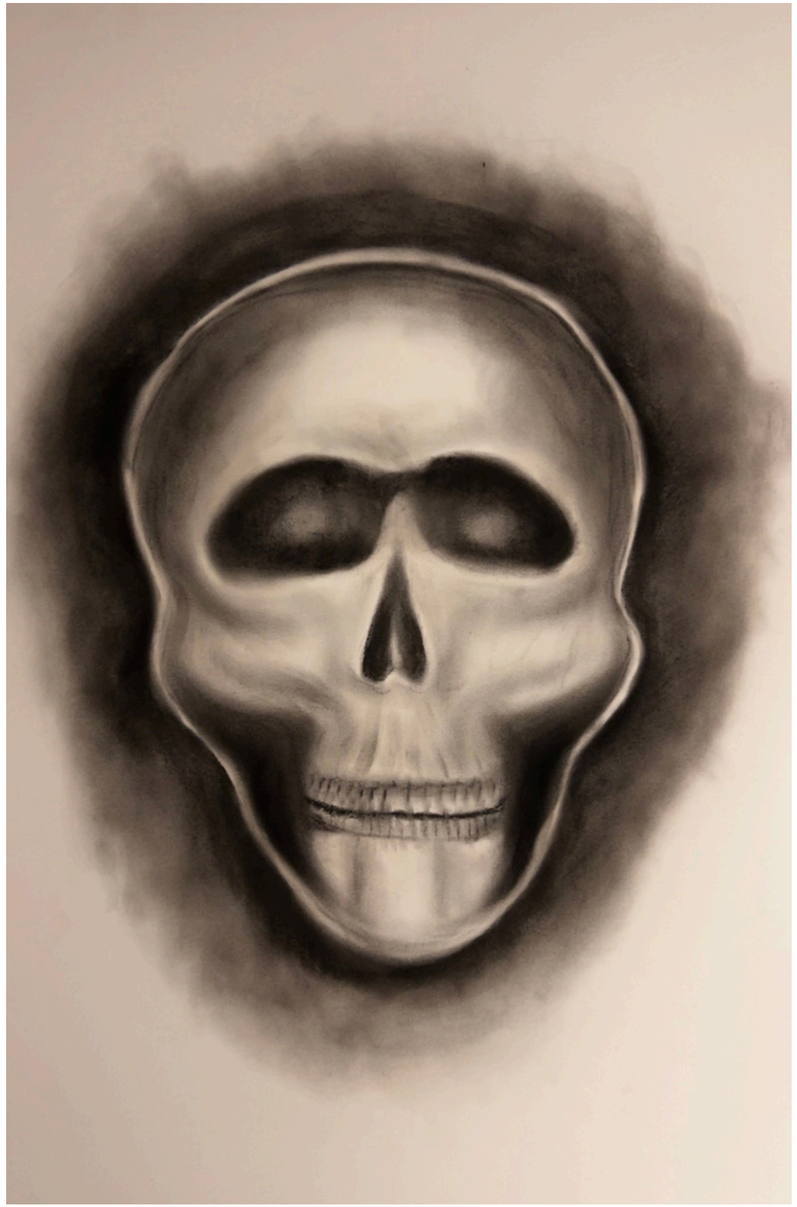
ABSTRACT PAINTINGS



Title: Rainy Sunrise

This abstract painting was created independently outside of school as an exploration of color, texture, and movement. I experimented with layered brushstrokes, circular forms, and contrasting shades of red, orange, and pink to create a sense of energy and depth.

CHARCOAL DRAWINGS



Title: Loss of Skin

This piece was created independently to explore shading, contrast, and the structure of the human form. I focused on using gradual changes in value and pressure.

CHARCOAL DRAWINGS



Title: Lost in Space

Created during a charcoal unit in drawing class exploring miscellaneous and abstract subject matter. I experimented with light and dark tones to give each element its own visual character.