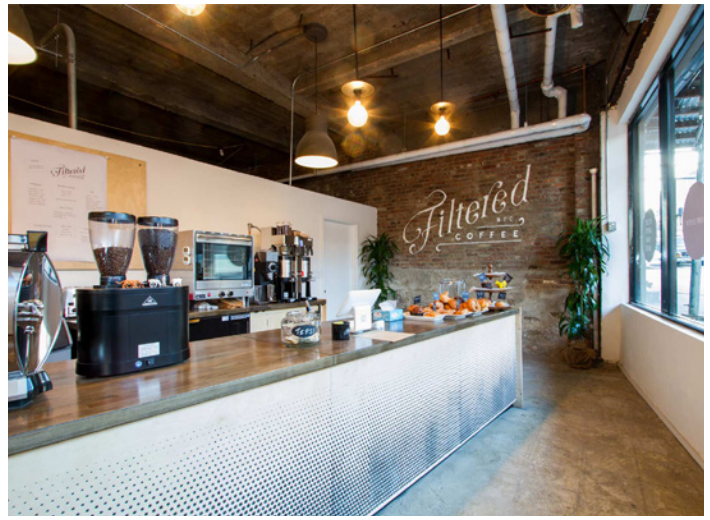
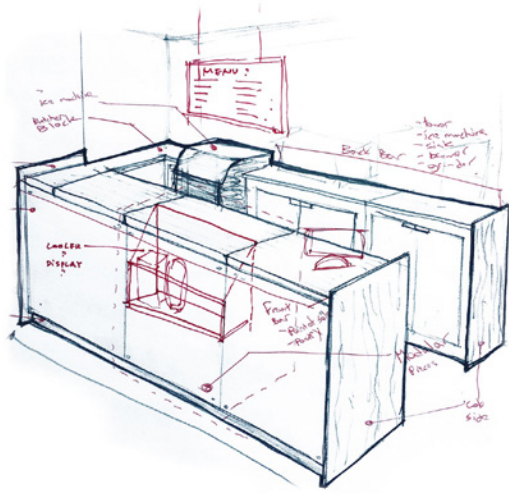




HARLEM MICRO APARTMENT

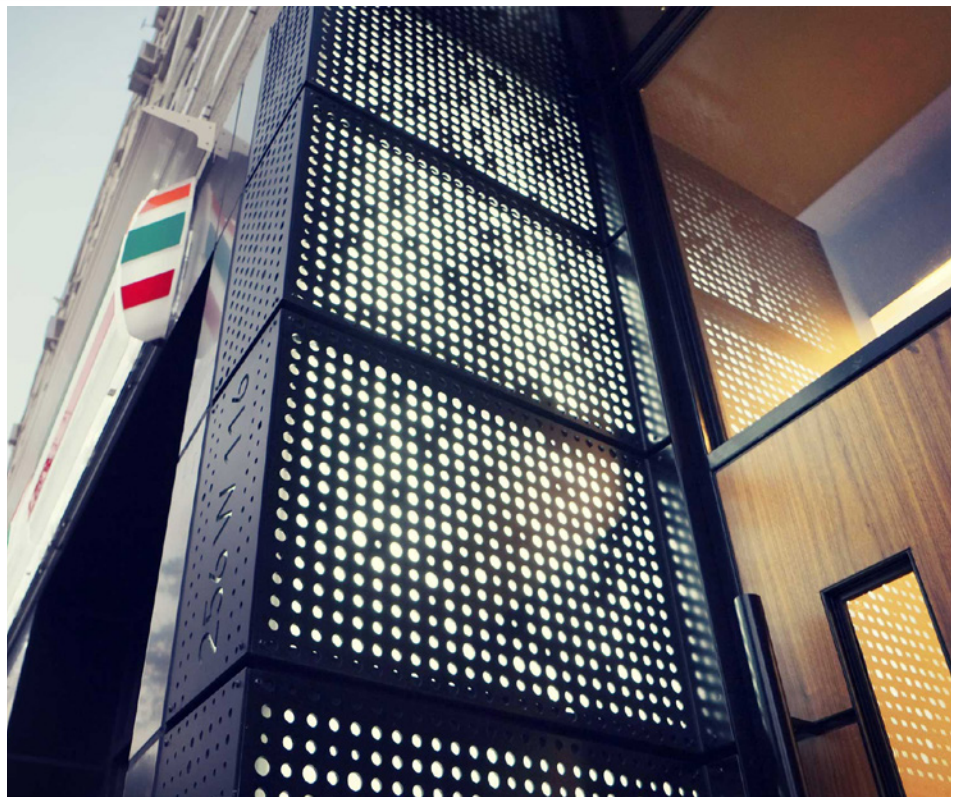
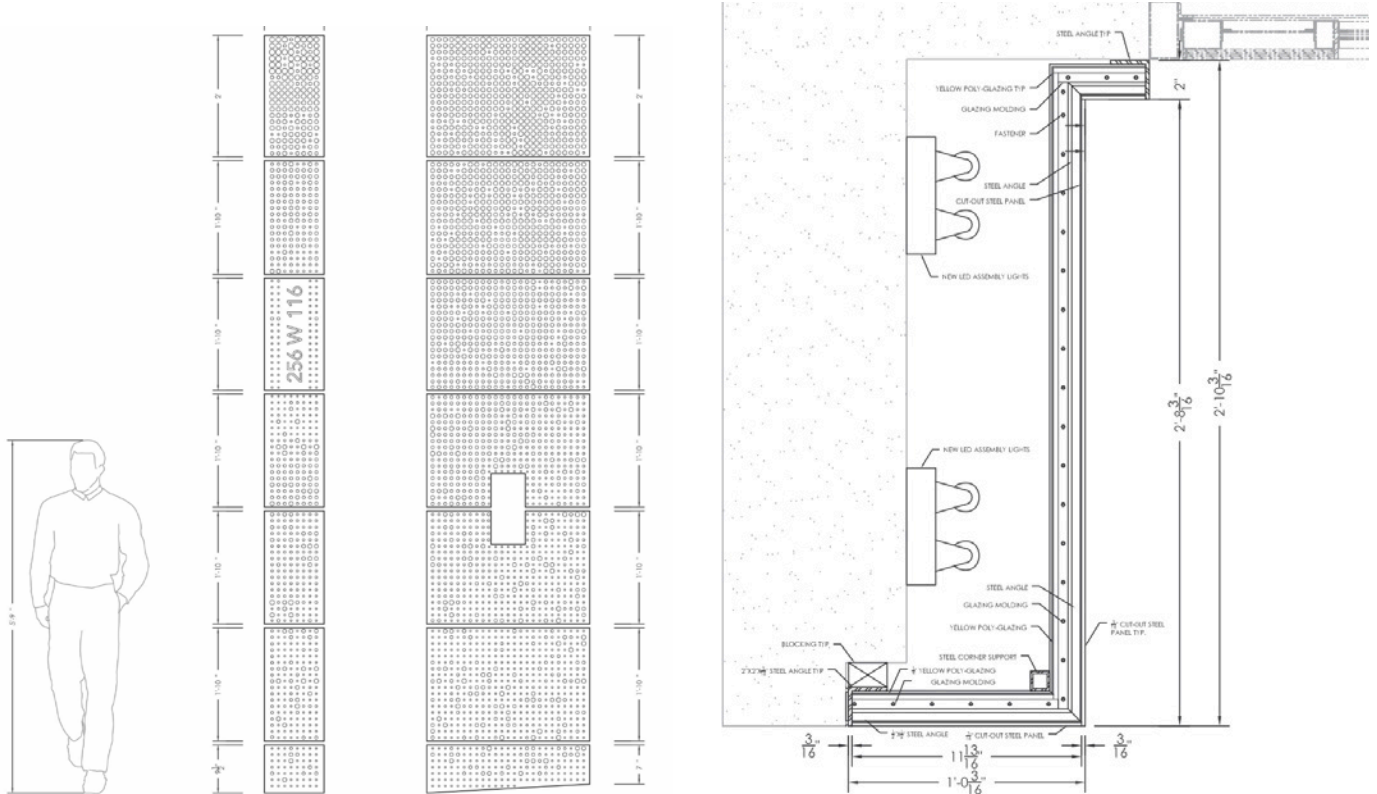
Interior Renovation Project-270 SF
Spring 2016

After taking the initial survey, I was the lead designer in charge of this project from schematic design through construction. This role included site visits, material and finish specification, and mill-work drawings. This project made use of compact, transformable furniture integrated into a "Swiss army" wall that allowed me to maximize open floor space. Windows at both ends of the apartment further link the space and highlight the open floor-plan. Because of this efficient packing, a bed, couch, expanding table, closet, and full kitchen can all be included within a minimal footprint.



FILTERED CAFE-NORTH
 Pop-up Coffee Shop - 1275 SF
 Winter 2016

This temporary coffee shop was opened in Washington Heights. I designed a system of modular counter-tops and prep spaces that could be plugged into the existing electrical and plumbing grid. The space itself was subdivided with a temporary wall that ran parallel to the storefront. Overhead lighting was installed on surface mounted conduits and accentuated seating spread throughout the space. While this shop is open for a limited time, its modular construction allows for it to be disassembled and easily moved to other locations. My role in this project was to design the modular bar system, produce fabrication drawings, and develop the overall plans for the space.



NADA MARQUEE

Industrial Design Project
Fall 2016

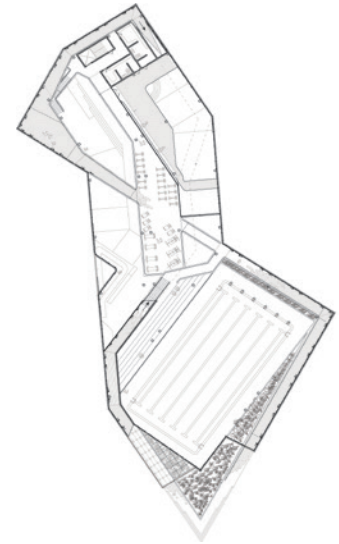
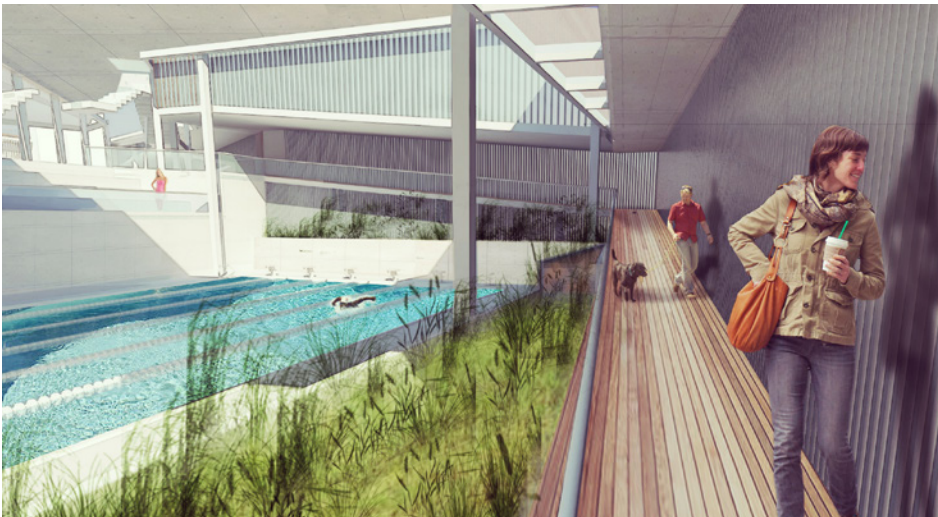
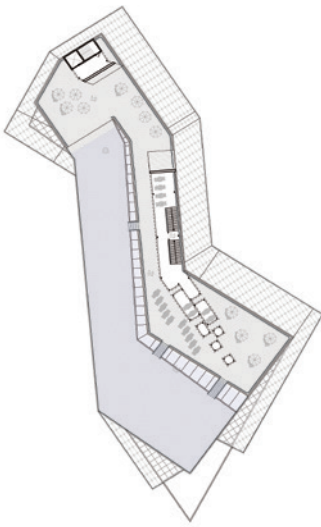
I generated the facade with a simple script that sampled values from a gradient map. The results of this sampling were further subdivided into four standardized hole dimensions. This algorithm also allows for a set amount of randomized deviation within the overall pattern. Once the pattern was set, each plate was plasma cut from 1/4" steel plate and affixed to a steel frame that covers the existing masonry facade. The assembly is illuminated from behind with LED tube lighting hidden within the assembly. This project required close communication with the manufacturer to optimize fabrication for speed, cost, and consideration of materials.



FLATBUSH APARTMENTS

Residential Renovation - 8000 SF
Summer 2017

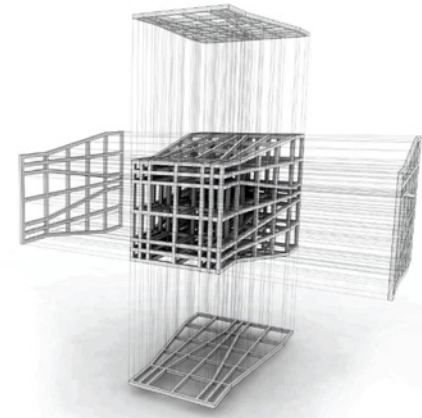
This five story walk-up structure in Park Slope was fully renovated with structural work, new plumbing and mechanical systems, and a street-level facade overhaul. By recapturing unused shafts and interior corridors, as well as moving the kitchens and bathrooms towards the center of the building, the existing 1-bedroom/1-bathroom layouts were converted into family-friendly 2-bedroom/2-bath layouts. Even with the increased room-count, the units retain modern, open plan layouts. Myself and another designer spearheaded this project through all phases of design and construction; developing layouts as well as selecting the fixtures, finishes, and fittings.



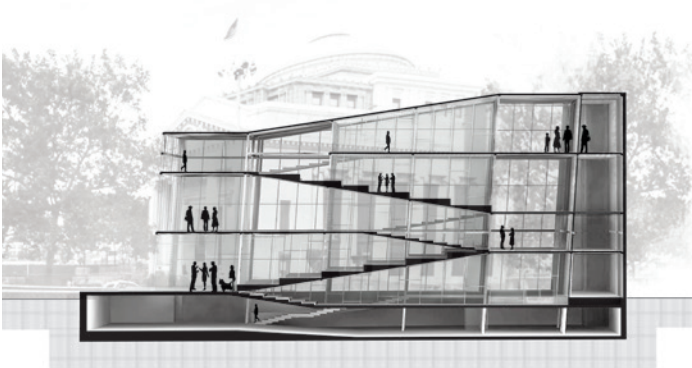
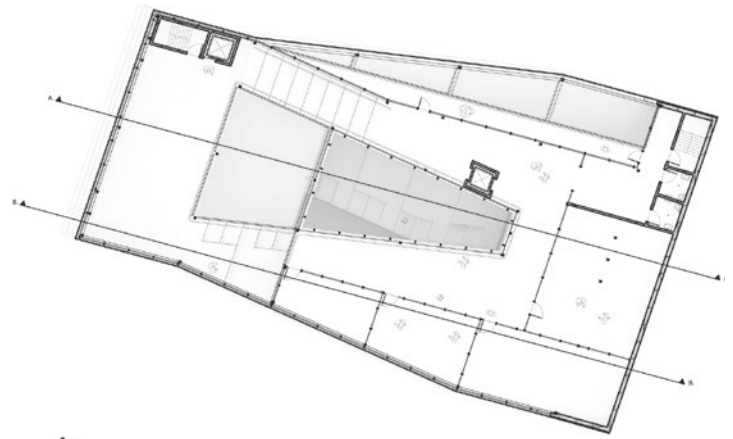
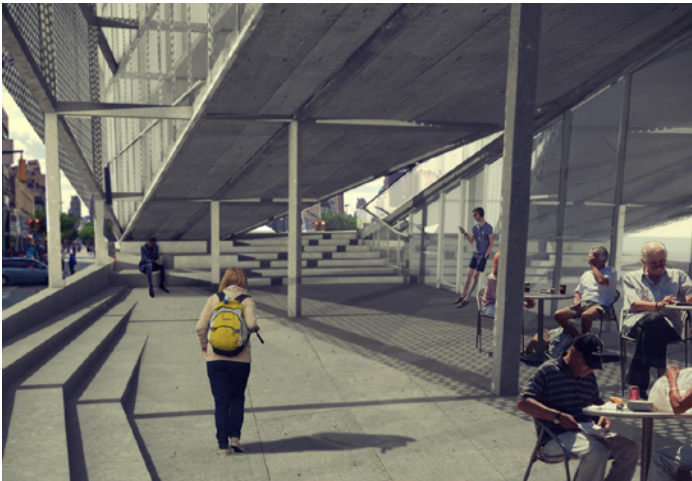
HARLEM POOL

Student Work - Sports Facility
Fall 2012

As Columbia University continues its controversial expansion into Manhattanville there are questions about how the school will interact and integrate with neighborhood residents. Rather than separate the two populations, Harlem Pool Project attempts to merge the university spaces by creating a dual use facility where local residents and Columbia students can congregate to swim. This project is oriented around a meandering circulation system that links programmatic areas together. Each individual area is dedicated to a specific famous waterside location. Among these is the competition pool-Walden Pond and roof pool-Copacabana Beach.



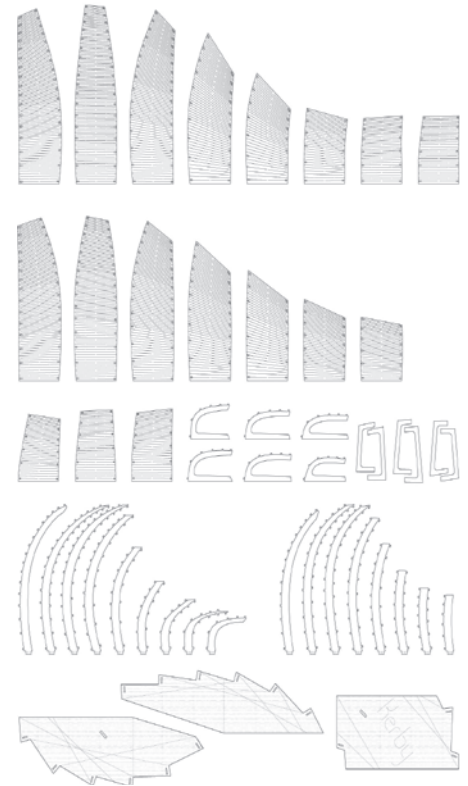
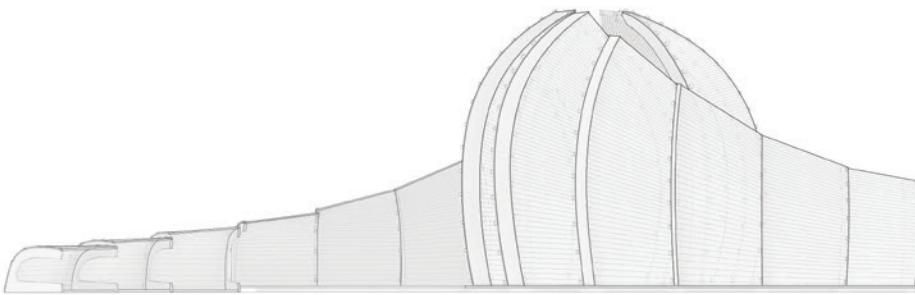
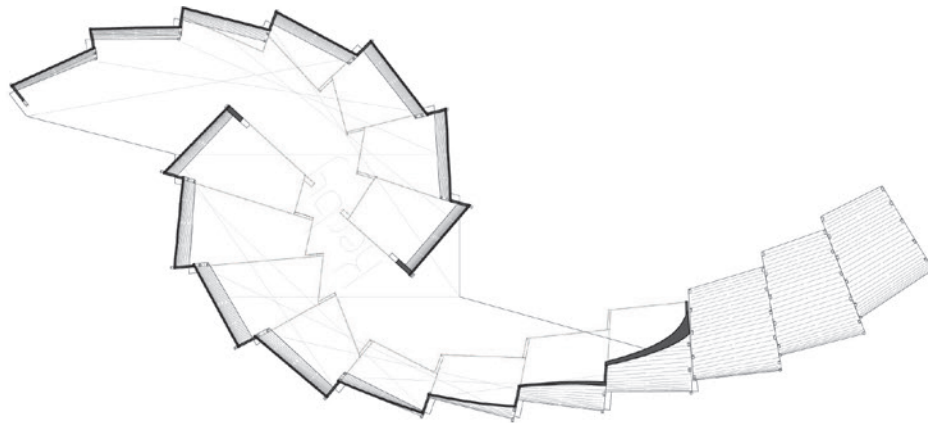
STRUCTURAL GRID



GRID BANK

Student Work - Commercial Bank
Spring 2013

Grid Bank is conceived as a public space where all program functions are defined by a trapezoidal grid. The building form resulted from experiments manipulating section and plan as identical drawings. The plan operates as the section and the structural systems of the building can be clearly understood from its exterior. The ground floor houses traditional bank program. The upper floors are divided into large stepped platforms that can be rented by small businesses or used by bank employees. On the ground floor a large monumental entrance sits above a glassed-in vault. The structure is clad in a semi permeable steel mesh facade that acts as a sunshade yet still allows for diffused views of the interior spaces.



KERBY NYC

Student Work - Installation Project
Spring 2015

Kerby NYC is a collapsible pavilion that uses kerfed plywood to create a flexible construction material that can be applied like a skin to a structural framework. While the initial project brief required a built pavilion, we were also interested in designing a flat pack structure that could be quickly moved and assembled in a matter of hours. The basic form, generated in 3DS Max, is a doubly curved surface that is panelized and unrolled as flat sheets for fabrication. Kerby NYC was CNC milled from 22 sheets of plywood and is uses plywood exclusively for every joint and detail. It was first assembled at Columbia University, then was later disassembled and moved to a new site on Governor's island.