

SOPHIA CAIN

PORTFOLIO OF WORK
2023

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BACKGROUND

Objective

To obtain a 30- to 32-hour full-time remote or hybrid position at a planning organization in order to participate in creating healthy urban areas, to expand my experience in the planning field, and to build relationships with other design professionals.

Philosophy

All elements of built environments should be subject to a holistic design approach which prioritizes human health, safety, and joy above all else, in intentional synergy with the natural environment.

Work Experience

Design Associate II, The Haskell Company	July 2021 - Present
Designer, Bostwick Design Partnership	July 2017 - May 2020
Intern, HKS Architects	Summer 2016
Graduate Teaching Assistant, University of Miami,	Sept 2015 - May 2017

Education

Currently Enrolled: GIS Certificate for Urban and Regional Planners, University of Florida Online Program, Graduating Summer 2024	
Master of Architecture, University of Miami	May 2017
Bachelor of Degree in Architecture, University of Florida	May 2015

Honors + Achievements

- Passed the ARE 5.0 Programming & Analysis Exam
- Graduate, EPIC Leadership Program
- Passed the Cleveland Clinic Infection Control Risk Assessment Program
- Recipient, Award for Excellence in Writing from the University of Miami Graduate School of Architecture

USCG MULTI-MISSION BUILDING

The Haskell Company • Confidential Location

Size: 28,800 SF

Completion: 2024

The US Coast Guard prepared preliminary drawings and specifications for a multipurpose facility meant to upgrade a coastal base. The Government selected Haskell's proposal and we carried their design forward, delicately detailing the facility's assemblage of programs and its stringent security needs, and ensuring compliance with applicable codes.

The desired scope included the following:

- Double-height boat work maintenance bay for military vessels
- Ten berthing suites with laundry, recreation, and mess spaces
- A medical examination suite
- Secure weapons storage and administration spaces
- A fully equipped gym and locker rooms



Under supervision of the Architect of Record, I worked independently to develop the model and construction documents in compliance with the Government-provided RFP. I have aided the Architect with Construction Administration and performed punch-listing. The work is on track to meet budgetary and schedule constraints. Image above by in-house renderer.

JEA H2.0 WATER PURIFICATION CENTER

Jacksonville, FL • The Haskell Company

Size: 39,000 SF

Completion: 2025

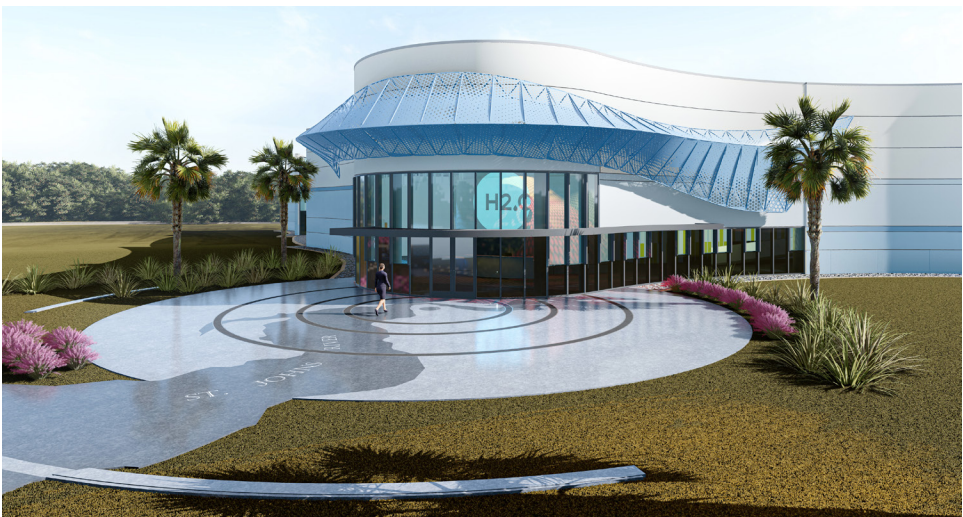


The Jacksonville Electric Authority envisions a uniquely interactive water purification center where the public can come to learn about the treatment process.

The new facility will support the entire process of transforming wastewater into safe and drinkable water, as well as a variety of areas providing educational experiences.

My role has been to assist with 3D model development on the interior and exterior as well as preparing construction documents. The project represents a way that an otherwise industrial piece of architecture can become a tool for connecting people with our most valuable natural resources.

It will offer an informational experience that makes visible the process of renewing water to a usable state, culminating in a water tasting room. Design by Andres Santandrea, and Chris Allen, model by Peng Wang, Charlotte Haines, Katie Wallace, and myself. Images by Peng Zhang.



AEROSPACE INDUSTRIAL RENOVATION + EXPANSION

The Haskell Company • Central Florida
Size: 85,000 SF
Completion: 2025

Images and identifying information about this project are restricted by an active NDA. A private aerospace company is preparing their manufacturing facilities to support future endeavors by renovating the existing facility and then expanding it through new construction. The program is a combination of administrative, manufacturing, and controlled spaces.

I have acted in support of the Project and Design Architects by developing iterative presentation drawings and construction documents, and assisting with interdisciplinary coordination. Additionally the team has used a 3D point cloud to provide the Client with high-quality As-Built drawings. The Client has been pleased with the team's adaptability and diligence.

OTHER RECENT WORK

The Haskell Company

NAS JAX Hangar 101

A historic hangar is being gently renovated for its continued use. I have assisted in on-site punch-listing and in providing timely responses to questions and submittals during construction administration. Construction drawings by Michael Schmieder and Pranati Joshi.

Christus Hospital

As part of an in-progress campus master plan, Christus Health is developing an expansion of an existing hospital in San Antonio, TX. I supported detailing efforts on the curtain wall exterior of the new patient care tower.

Proposals for Work on Military Bases in Panama City, Pensacola, and Yankee Town

The proposals for military renovations and new construction for the Federal Government ultimately did not proceed for various reasons, but their preparation was an exercise in ensuring excellence and economy simultaneously.

UPMC HAMOT PATIENT CARE TOWER

Erie, PA • Bostwick Design Partnership

Size: 202,607 SF

Completion: 2020

The Patient Care Tower addresses many of UPMC Hamot's targeted strategies for growth and patient safety through the consolidation of critical care services. It constitutes a transformational change in the way healthcare is provided to the Erie community.

The new Tower provides a variety of new Healthcare programming :

- 64 new, right-sized ICU beds
- Critical upgrades to campus infrastructure
- Space for 12 Fast-Track / Patient Observation Beds
- Expanded Imaging services, and
- Shell space provided for future imaging, dialysis, rehab, behavioral health, and Medical / Surgical units



I acted in a supportive role developing the construction documents for this work and creating imagery for both internal and presentation use, such as the illustration shown above.

This project represents a key piece of UPMC Hamot's plan for a physical complex that supports their strategic goals for delivering optimal patient care in a tertiary hospital to the tri-state area for many years to come.

METROHEALTH TRANSFORMATION

Bostwick Design Partnership with HGA (AOR) • Cleveland, OH
Size: 720,000 SF
Completion: 2022



MetroHealth is among the most comprehensive healthcare providers in Northeast Ohio. The 12-story tower connects with existing Critical Care and new Central Utility Plant and adds new departments including NICU, Burn, Med/Surg, Post/Ante Partum, Pharmacy, Imaging, Pediatrics, and areas typical for operation.

In addition to drawing development I performed extensive equipment management, particularly in the Central Sterile and Morgue units. Images created by team members.

Project scope includes:

- Hospital with 264 Inpatient beds, central utility plant and support services building, all totaling 735,000 gsf
- Demolition of existing parking garage and hospital, refacing and minor renovations to the Critical Care Pavilion, totaling 45,000 gsf
- 30 acre site with infrastructural improvements



THE CLEVELAND CLINIC - MENTOR HOSPITAL

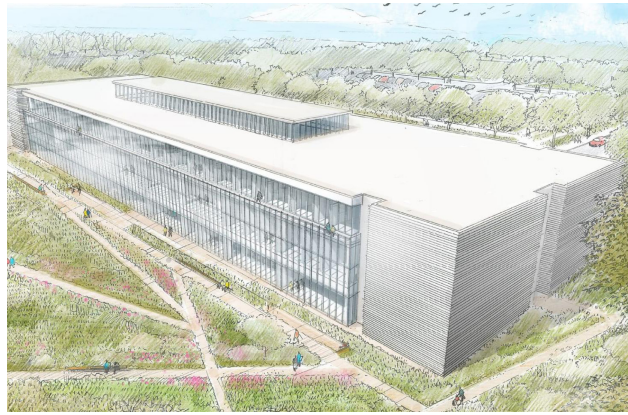
Mentor, OH • Bostwick Design Partnership

Size: 95,000 SF

Completion: 2022

The Cleveland Clinic recently introduced the new 3-story Mentor hospital featuring 36 exam rooms, emergency department, operating and pre/post op rooms, pharmacy, imaging, support, and food service.

The Bostwick team worked closely with the Cleveland Clinic's Center for Design in pursuit of the best interests of patients and staff.



The Cleveland Clinic maintains a high standard of environmental beauty and safety as tools for healing, as exemplified by certain key features:

- A two-story skylit atrium
- A primarily curtain wall exterior to provide plenty of natural light
- One centrally located visitor entry, maintaining patient security



My role on the team was to help with drawing development and compliance with design guidelines for healthcare facilities.

I also created iterative renderings (left), physical models, resource and circulation diagrams, and other visual tools to aid in a dynamic design process.

Physical model of Patient Exam Room (right), with scale figures, casework, furniture, and operable doors, made from foam core, plastic sheets, and paper.

I made a set of these models as tools for discussing design possibilities with the client and for collaboration with the Cleveland Clinic's Center for Design.



OTHER WORK

Bostwick Design Partnership

LECOM Union City Rural Health Clinic + LECOM Skilled Nursing Facility

This medical college in Erie, PA has been developing facilities at a variety of scales to provide treatment to communities while training healthcare professionals. I worked with a team member to model and document the residential-scale Rural Health Clinic, and I assisted with conceptual development and presentation imagery for the Skilled Nursing Training Facility.

SFMC Inpatient Towers

The Bostwick team acted in a consulting capacity for room and equipment management of a new large-scale hospital in Riyadh, Saudi Arabia. I aided in itemizing medical equipment for rooms in a modular manner.

Internship, HKS Architects

Cap Juluca Resort Anguilla

An oceanfront resort consisting of 23 villas and accompanying amenities was in need of renovation. Using CAD drawings of a number of the existing villas, I created 3D models that would form the framework for drawing development.

GRADUATE THESIS: THE OVERPASS

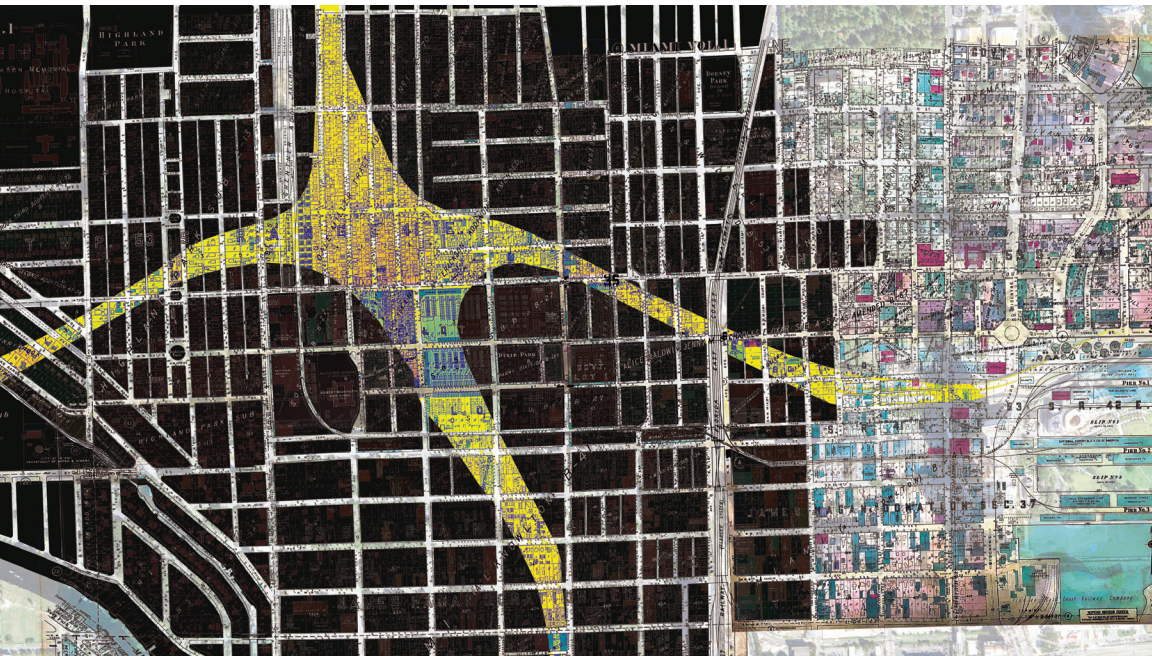
Fall 2016 - Spring 2017

The introduction of two major Interstates deeply wounded the historic neighborhood of Overtown in the 1960s, leaving an architectural void that contributed to general poverty and the health disparities associated with it.

This racially-driven decision destroyed much of Overtown's residential and commercial material, and has had the intended effect of economically crippling this historically black community.



The Overpass is a prototype for bridging health disparities by addressing the architectural voids contributing to them.



Economic poverty both contributes to poor health outcomes, and perpetuates them. The Overpass intervenes at the knot where the Interstates cross at the center of Overtown, reclaiming the central space to add resources, to help address the issues that tie poverty to poor health outcomes by making available an array of needed programs.

Locals fear that new development could gradually take Overtown away from them. Instead, new development could work for the community as a means to help heal past wounds rather than deepening them.

The self-perpetuating cycle of poverty means that Overtown is lacking in architectural resources to support nutrition, safe exercise, health education, and preventive healthcare.

With over 51,000 sqft of indoor hydroponic gardens and another 394,000 sqft for outdoor gardens being reappropriated from the Interstates themselves, a surplus of fresh food could be produced for the entire community.

In the proposed complex is a legal office, diagnostic services, and a 'Grocery Clinic' rendering access to healthcare as casual as a trip to the grocery store.



Overtown is a historic place that needs to recover from decades of loss. Rededicating infrastructure to addressing the food desert, and building around the rest, can help heal Overtown while also maintaining intercity travel.

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