ARCH 8510 Project Concepts

Fall 2024



Hatteras Island, NC



Ocracoke Island, NC



McClellanville, SC



St. Helena Island, SC



Fripp Island, SC

Housing

Agriculture

Community Infrastructure

Fishing

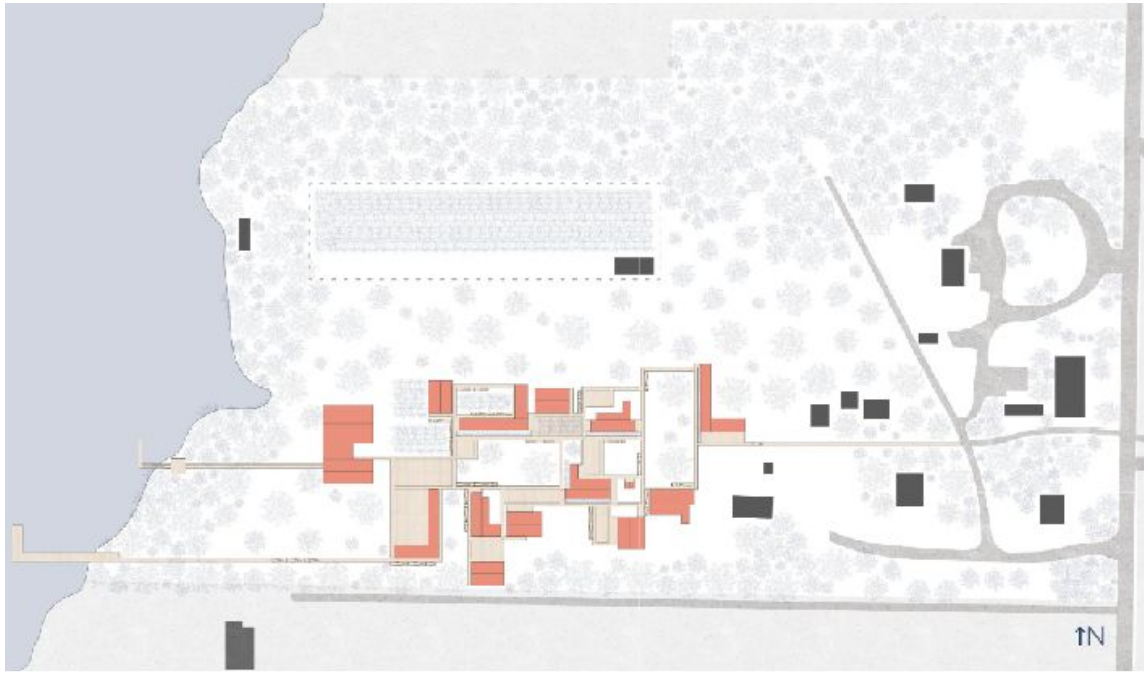
Housing

Resilient Roots.

Kylee Russell and Abby Buskirk

Cultivation Center, Housing, Resilient Design

Creating affordable, multi-generational housing that is for the Gullah Geechee community, and is resilient to changes in sea level rise. "Housing that is rooted in cultural heritage, fosters community engagement, and strengthens residents relationship to the land."

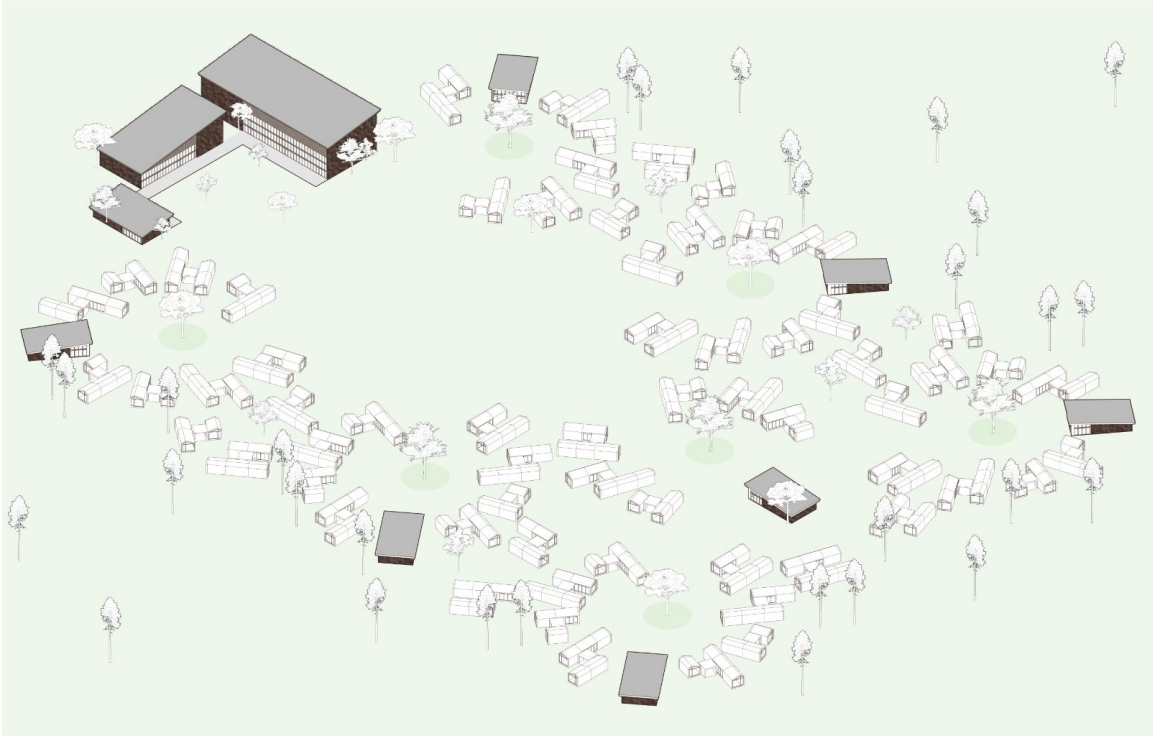


Community Unfolded.

Erin Allen, Cara Welker, and Zac Wells

Modular housing and community center that can be set up and collapsed for emergency shelter to the Gullah Geechee community during disasters.

Modular Housing

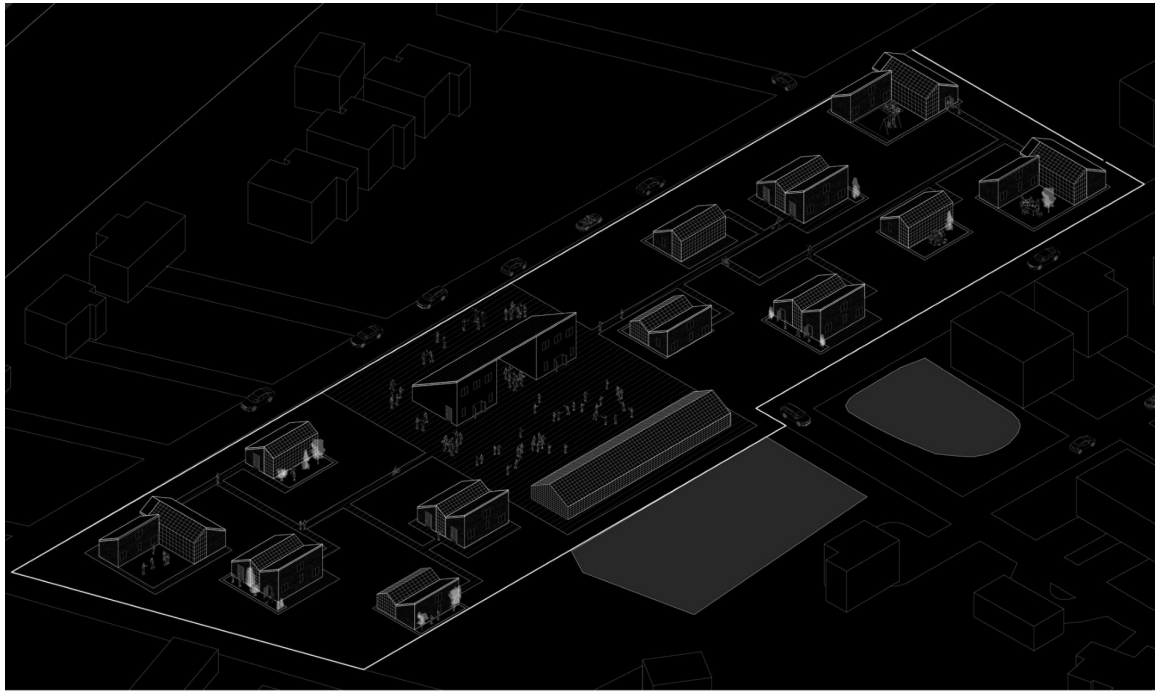


Designing a Resilient Community.

Kenna Zeitz and Bridget Hewitt

A design for a self-sustaining community in Hatteras Village that preserves residents' connections to their culture and environment as the island floods, enhancing community events like the Day at the Docks Festival while integrating sustainable systems and repurposing local materials.

Resilient Housing, Community Center





it takes a VILLAGE.

Jessica Gray and Leonor Fleming

Our vision is to create a vibrant, inclusive hub on the island where individuals of all generations and cultures can celebrate diversity, share experiences, and build lasting connections in an environment that values and empowers everyone.

Housing and Community Center/Shelter

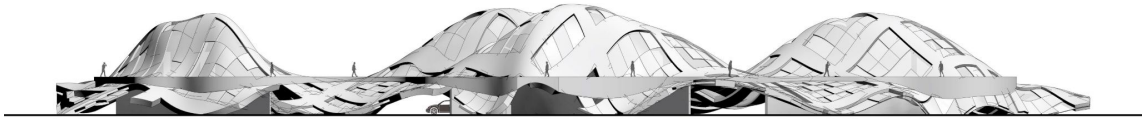


Bound By Growth.

Lexi Miller and Cole Curry

Provide a resilient housing archetype that allows locals of the island to stay and withstand the threats of sea level rise and increasing hurricanes.

Resilient Housing





Agriculture

Breaking Bread.

Lyndsay Flippin and Valeria Ulloa

“Breaking Bread” aims to foster community unity through the shared experience of food, where people can come together to cook and eat.

Community Garden, Kitchen

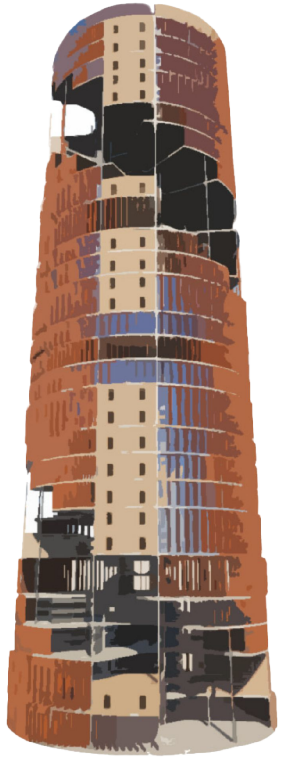


Hatteras Harvest.

Charlotte Littlejohn and Liam Casagrande

Vertical Farming, Housing

Provide shelter and fresh produce to the Hatteras Island community threatened by sea level rise and storm damage.



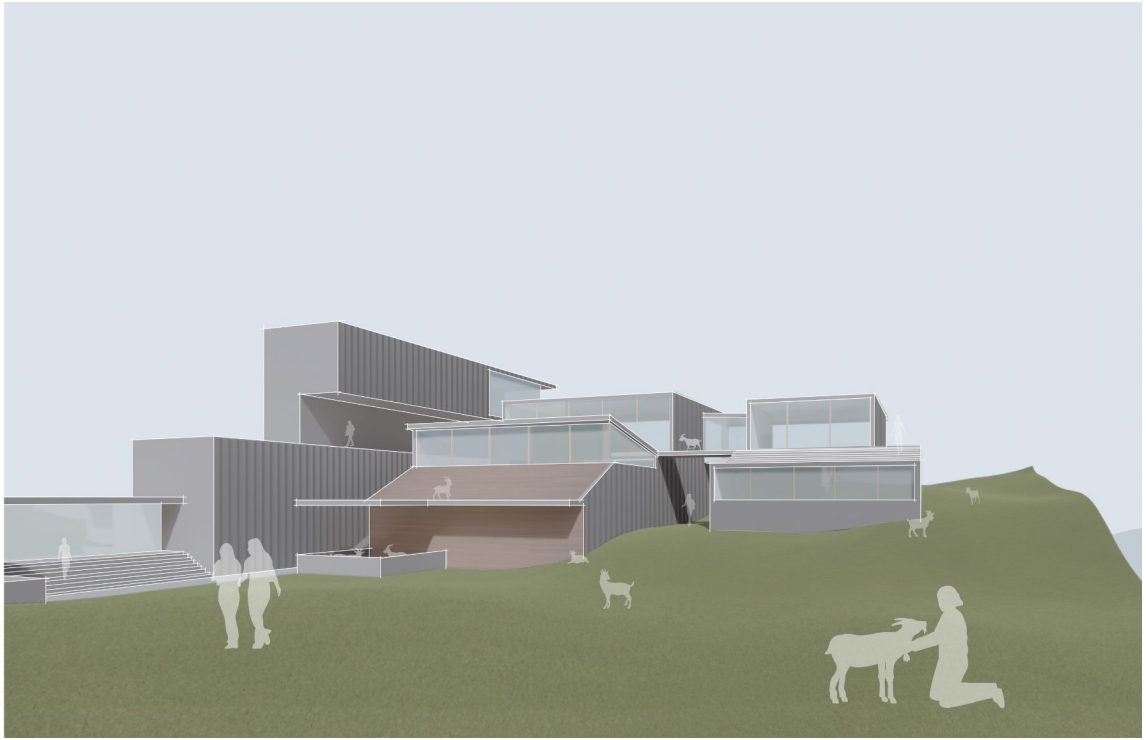


Sea Cells.

Abby McKnight and Mariana Ramirez

Create floating farms that provide sustenance to Ocracoke through meat, dairy, and vertical farming, and in 50 to 100 years provide food, fresh water, power, and shelter for all of Ocracoke's permanent residents.

Floating Farm

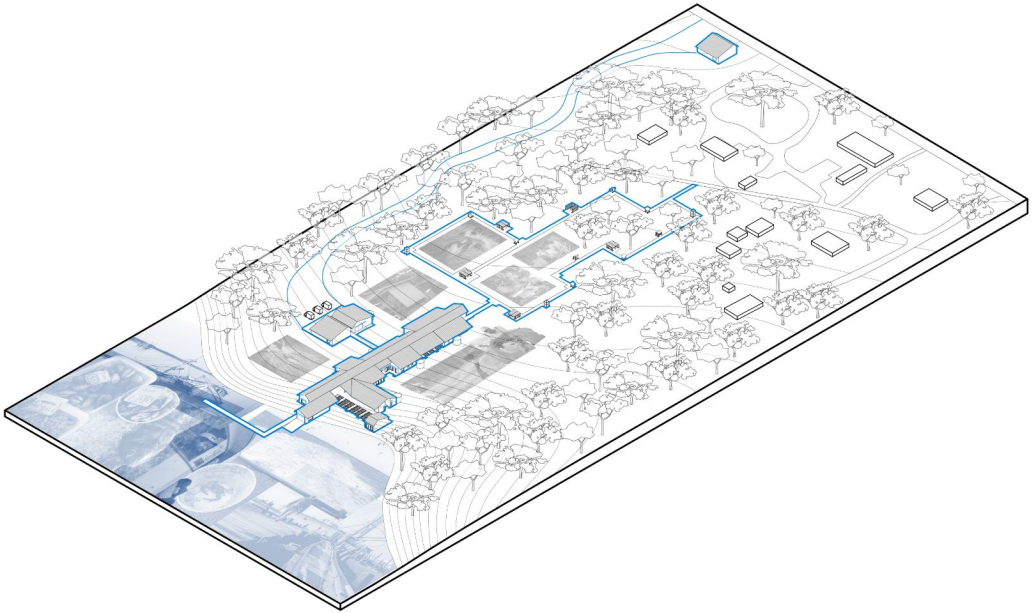


Farm Stay.

Luke Esparza and Matt Fernandes

Creating a space inclusive to the culture that gives tourists a look into the agricultural aspects of the Gullah Geechee community.

Agricultural Fish/Farming Experience

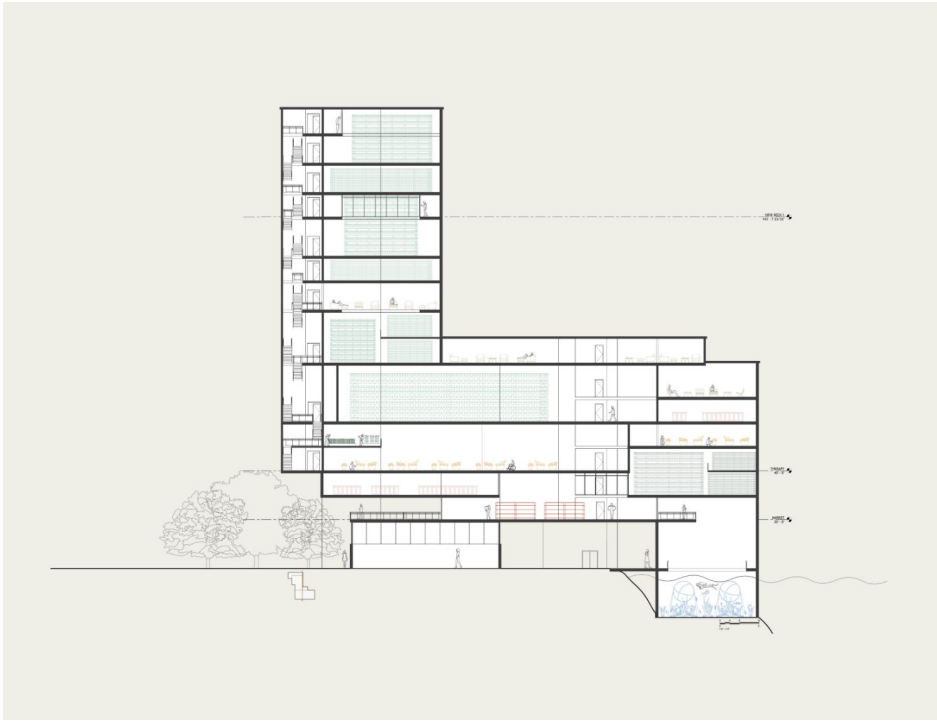


When Architects Aren't Farmers.

Amber Levengood and Raegan West

Vertical Farming, Therapy Garden, and Market to provide sustainable produce to the island while reducing reliance on mainland resources.

Vertical Farming



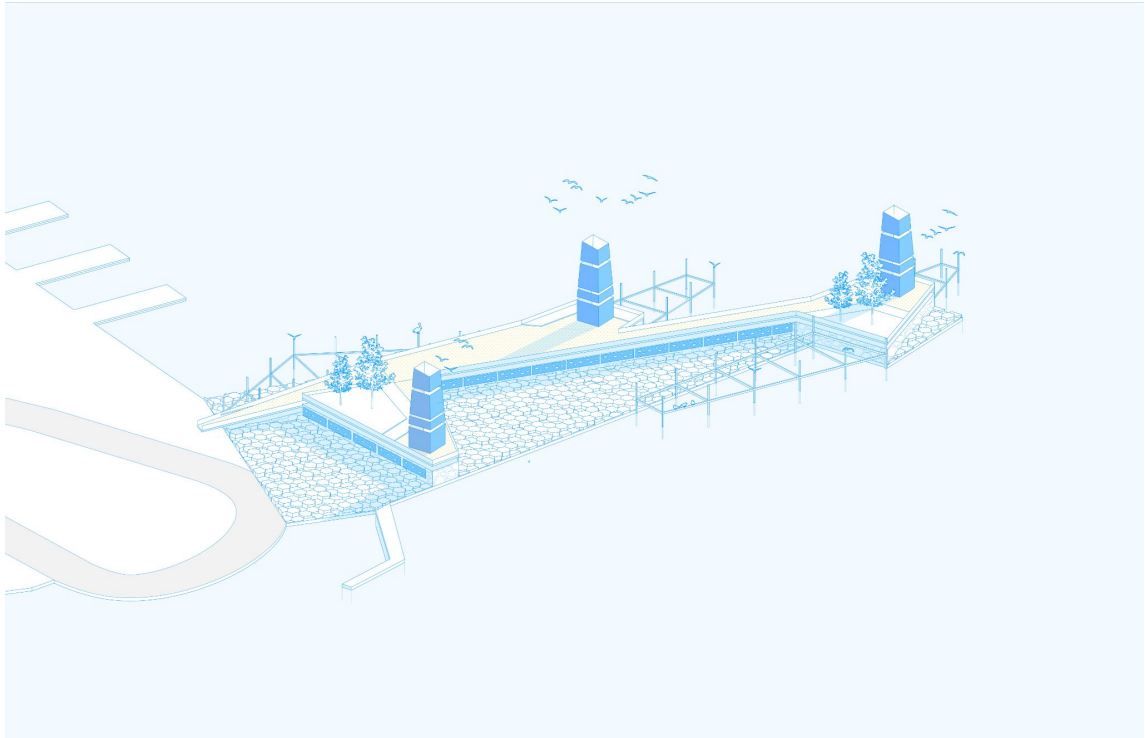
Community Infrastructure

Retreat.

Salvatore Costanzo

Create a space where humans can interact with the ecosystems on Ocracoke, that can be occupied by the nature (particularly birds) after the island is inhabitable by humans.

Bird Watching, Ecosystem Habitat

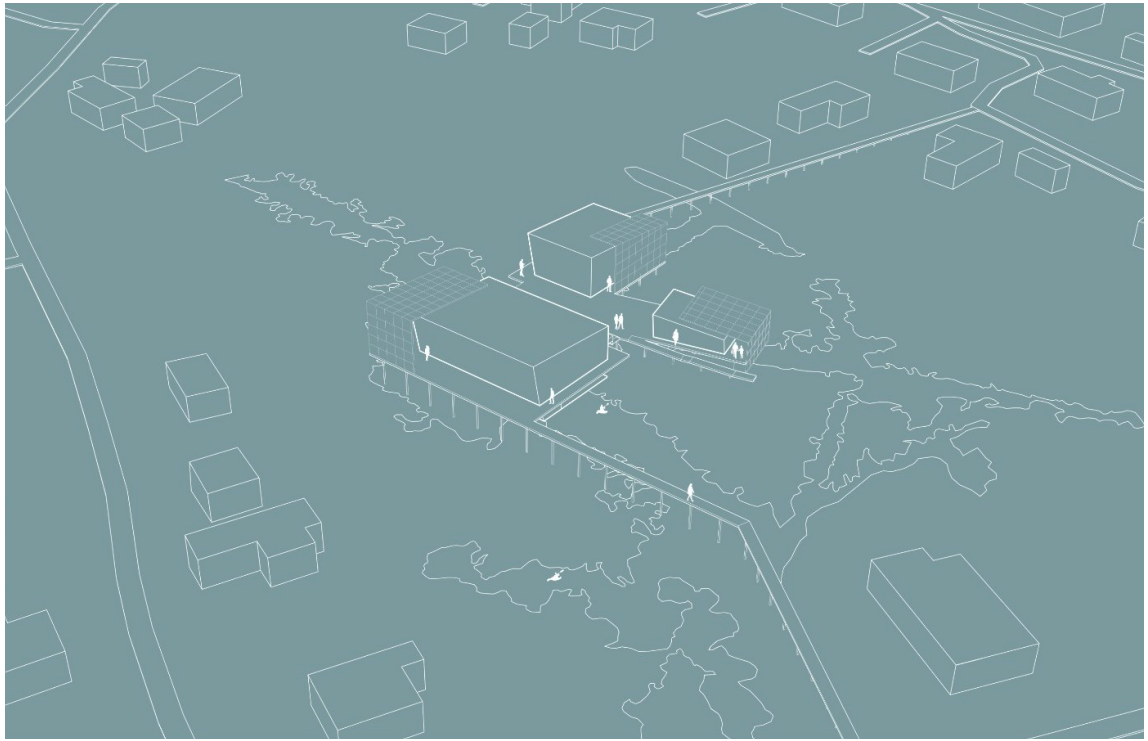


Up the Creek

Gianna Arquilla and Madison Adams

To address the ever-changing climate, this space represents adaptability through Ocracoke and the community. By cultivating a place of refuge, this project is designed to integrate the community, safety, and island ecosystems.

Community Center, Marsh Rejuvenation

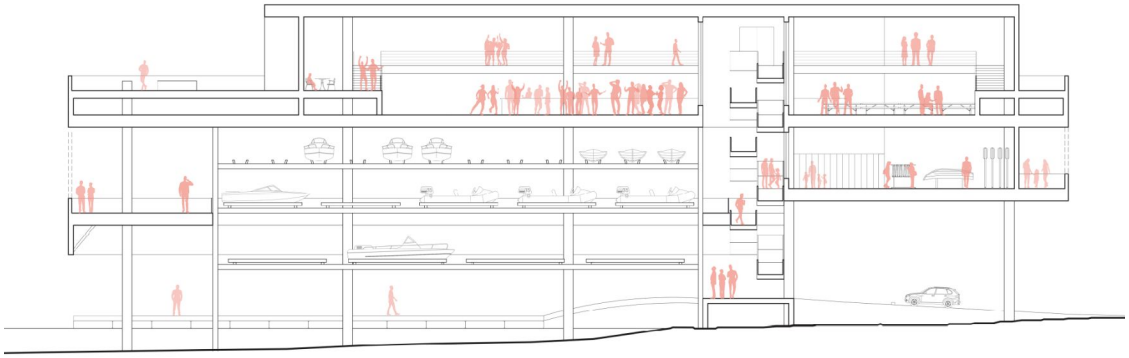


Harbor and Hops.

Anna Turco and Lauren Reaume

Harbor and Hops proposes a safe storage location for emergency and local boats during hurricanes, with a bar restaurant upstairs to socialize and square dance through the storm. By protecting the boats, the facility can serve as the home base for relief efforts, catalyzing the disaster response efforts and strengthening the resilience of the community.

Hurricane Proof Boat Storage w/ Bar and Restaurant



Ferry Lane Films.

Sean Morris and Hunter Hill

Ferry Lane Films is a project designed to create a vibrant social space on Ocracoke Island that enhances the ferry waiting experience, fosters community connections, and provides a resilient refuge for locals amid climate challenges.

Ferry Terminal and Movie Theater



Re Create.

Lad Howell, Daniel Toro, and Kailyn Denton

Development aimed to remove the disparity between communities, with a focus on arts, recreation, and practical skills.

Community Enrichment Center

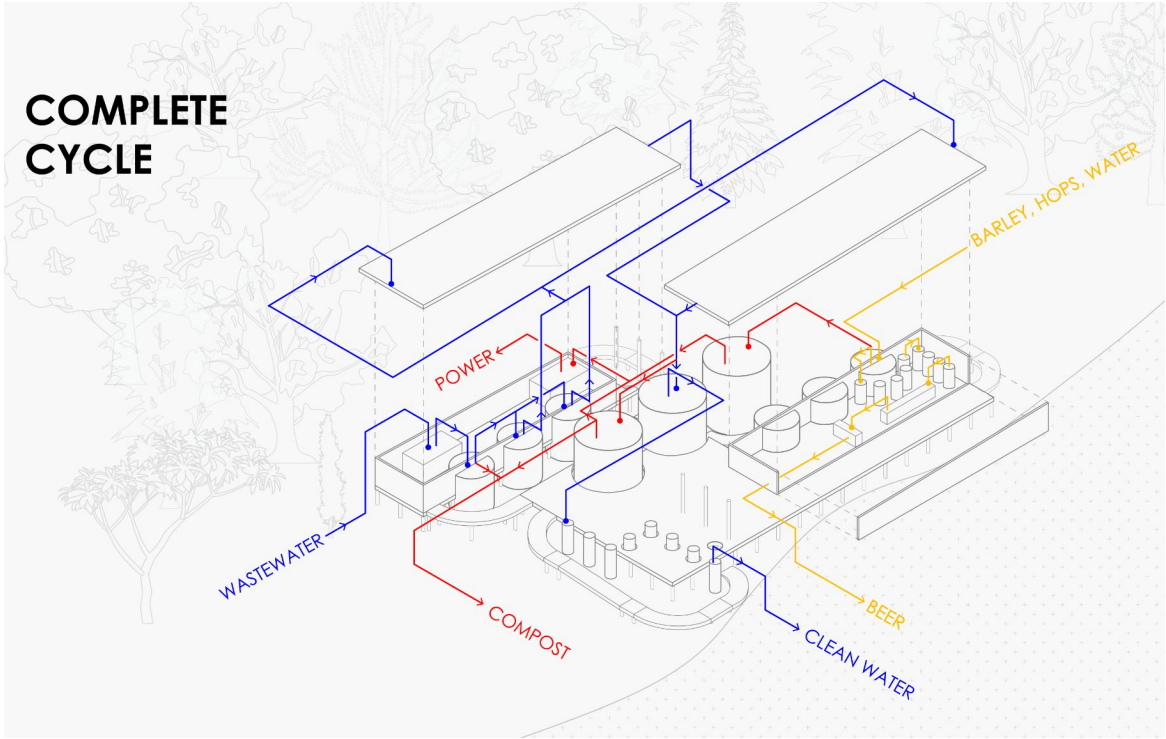


A Precedent for Waste.

Eric Johnson and Jaiden Shea

This project seeks to reconnect the town to the original community that allowed it to flourish, providing a future for all beings. By reconnecting the human waste generated to natural cycles, a long term coexistence can be fostered.

Waste Treatment Center and Brewery



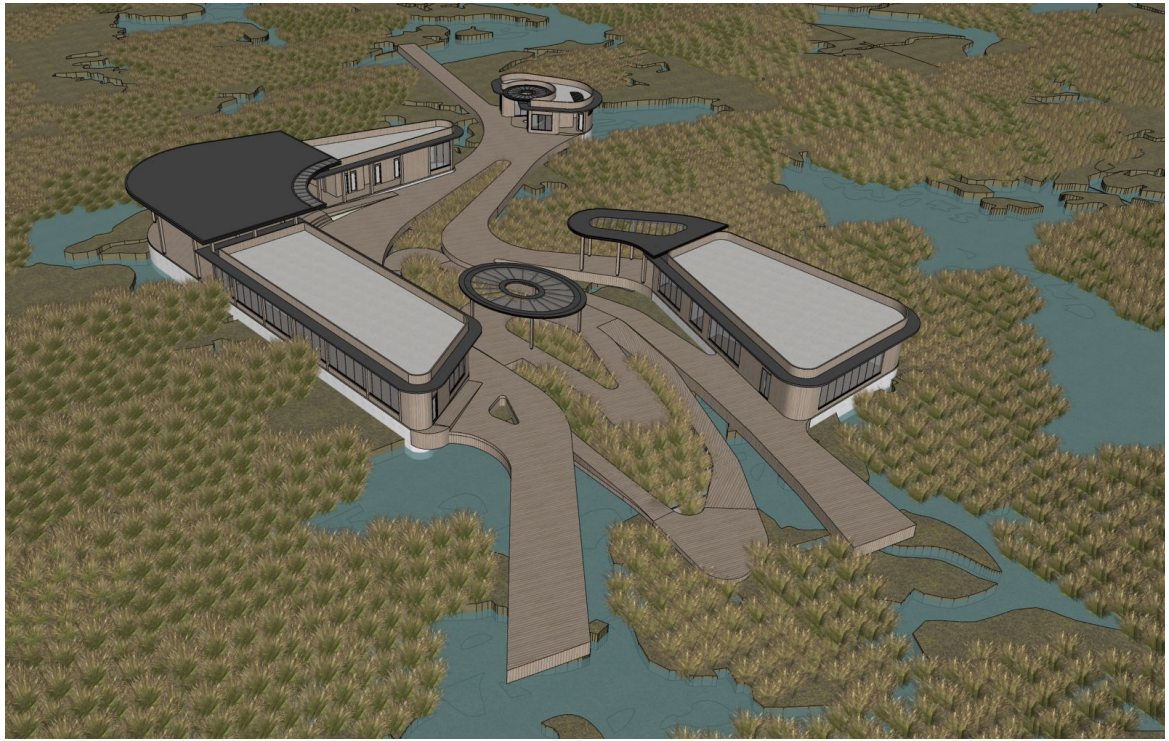


The Tide Root.

Ryan Brown and Shubam Adhikari

Working to protect the wetland legacy with community engagement, cleaning up the salt marsh, and creating art from debris. Integrating culture preservation, ecological restoration, and sustainable tourism for resilient coastal futures.

Research Center and Exhibition Space



Community, Sustainability, and Resiliency.

Kasey Kardosz and Maryann Royster

Regrowth shelter, learning center, research facility

A central hub for recovery, offering critical support during hurricane disasters by providing immediate refuge and essential resources, distributing aid, and coordinating relief efforts. A research facility aimed at educating locals and tourists on the importance of preserving the island's unique ecology. The insights gained will directly inform strategies to enhance island sustainability, and support disaster readiness.



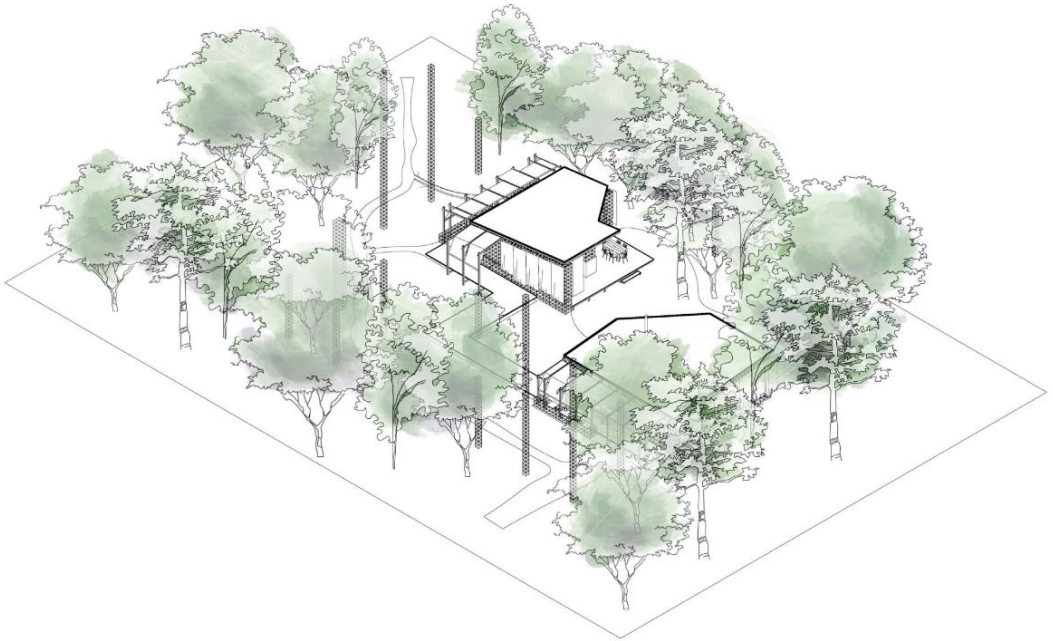


St. Helena Cultural Incubator.

Parker Trost and Thomas Meacham

Community Makerspace

Due to the inevitable effects of sea level rise, the Gullah Geechee community of St. Helena will need to preserve its culture. Our project aims to provide a space for multigenerational learning, through blending traditional ways of making and contemporary skill sets. Through making, teaching, and archiving (physically and digitally) this space will assist in the cultural empowerment of the next generation.





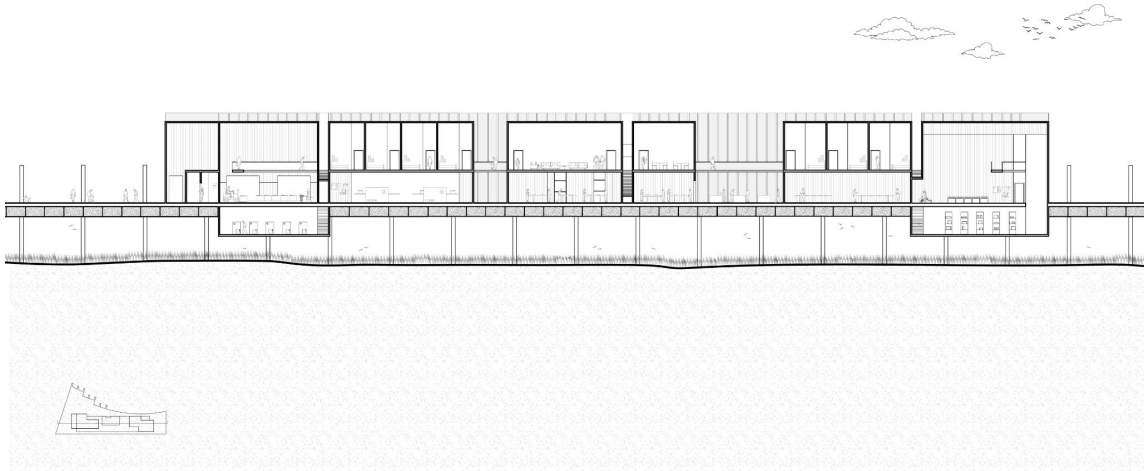
Fishing

Fish House.

Ciela Stark and Leah Gripp

This project aims to bring more exposure to the fishing industry on Hatteras Island and provide a space for tourists and locals to gather.

Fish Processing and Marketplace



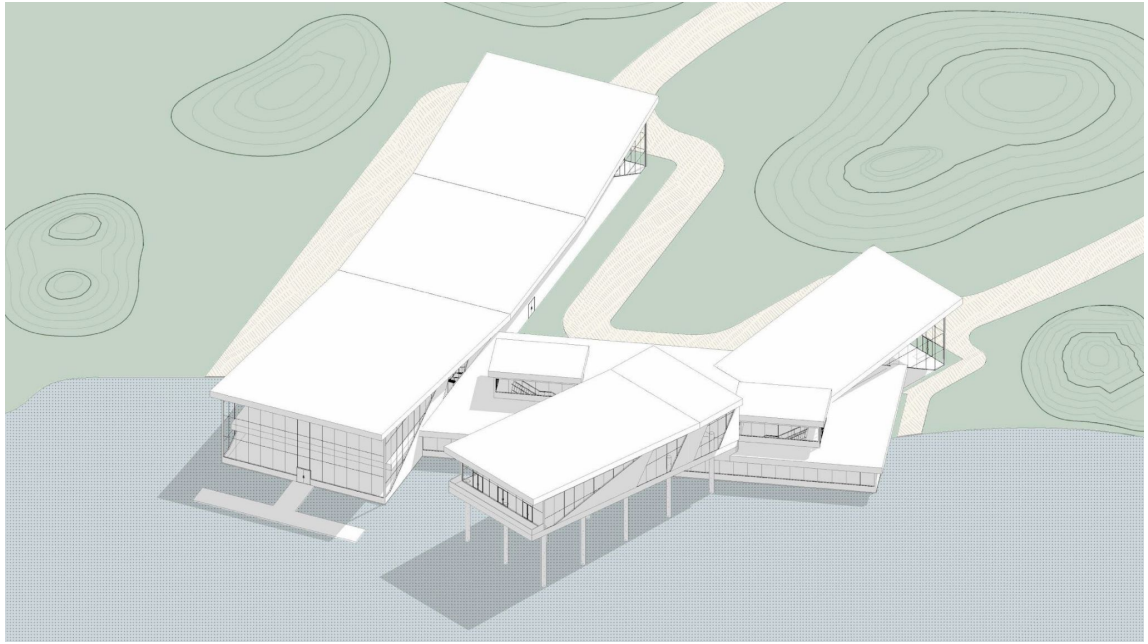


Research Center and Fish Market.

Christian Bravo and Ryan Herron

The project uses a 3-prong program in order to maximize the amount of helpful information we are able to release to the public, while becoming a pillar of the local community.

Research Center and Fish Market



Harbor Haven.

Luke Bassett and Zach Falls

Increase the connection between the tourists and local Gullah Geechee community by providing a space for local fishermen to sell their fresh catch.

Fishing Docks, Supply Station, and Market

