SYSTEMS

PASSIVE

Windows that perform energy rather than consume it is a radical shift in our environment. Passive House is a system that: No. 1, has the highest performance limits imposed by the environment through heating and cooling; and second, the use of the house model through their trade-off characteristics, but also through the design they are constantly improving the use of all relative climate control elements (high performance windows, etc.)

ENVELOPE

SUPER-TIGHT, SUPER-INSULATED

Inspired by the German Passivhaus approach, we propose to invest in a highly integrated building envelope. The Passivhaus U-value and ventilation system. The envelope is balanced, and the energy is used efficiently to perform. The design will study shadows and sun, and create a significant reduction in the building envelope and low temperature in its southern orientation. A closed-loop system is proposed.

FEEDBACK

INFORMING ENERGY CONSUMERS

Sustainable homeownership involves a responsibility to educate the public and provide energy-saving incentives. The idea of a highly integrated envelope to provide heat recovery and ventilation for a closed-loop system is proposed to inform energy consumers by reducing the impact of the building envelope.
SITE

LOW MAINTENANCE GREEN
The site has a small Existing garden of trees and small perennial shrubs. The layout of the streets and access of the site is flexible and allows for a low maintenance garden. The layout is designed to encourage the residents to use the adjacent park for community outdoor activities.

CONTEXT

TEXTURE, COLOR, SHAPE
Features are climate-adapted. The building is built using materials that help to reduce energy consumption. The roof is made of solar panels to generate electricity. The building features large windows to allow natural light and ventilation.

STREETSCAPE

FACADE PLASTICITY
The streetscape design is an adaptable facade system. The facade system is adaptable to the building's size and shape. The facade also features solar panels to generate electricity.

CUSTOMIZE

UNIT INDIVIDUALITY
The apartment interior is customizable. The residents can choose the color and style of their apartment. The apartment also features a small garden to provide a private outdoor space.

URBANICA + INTERFACE STUDIO ARCHITECTS