CyberARC I Aeronautics and Space Technologies Application And Research Center

The innovation center located on campus aims to conduct research on the production and development of drones and aviation vehicles. The center brings together students, teachers and guests from various ages.

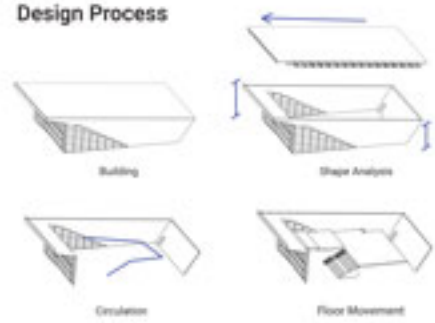
Scenario

This application and research center focused on the production, education and collaboration related to drones and other small aerial vehicles from the space and aviation industry.

Front View

The first view encountered at the front facade for showcasing drones and design prototypes, along with a workshop space that is also use for cyber airspace. It showcases the interior scenario.

Design Process



Within the upward rising form of the building, floor movement is established in the usage of the spaces.

The user base consists of students, academics, researchers, and visitors from different age groups. Workshop events bring these groups together.

The shared working areas consist of partition panels that serve different functions. This areas, bring together learning and assessment activities.

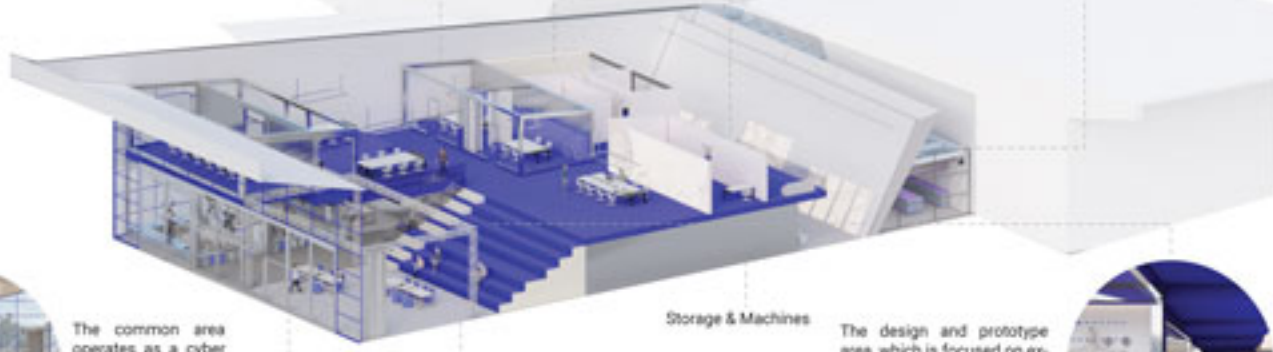
Working Area

Offices

The essential materials required for aircraft are produced in laboratories.

Laboratories

Lounge



The common area operates as a cyber airspace or workshop space based on needs of people.

Common Area

Cyber Airspace/ Workshop area

Storage & Machines

The design and prototype area, which is focused on exhibit and production, is the first space encountered at the entrance of the center.

Design & Prototype

The design and prototype room is located at the entrance. This space is the design hub for drones and small aircrafts.

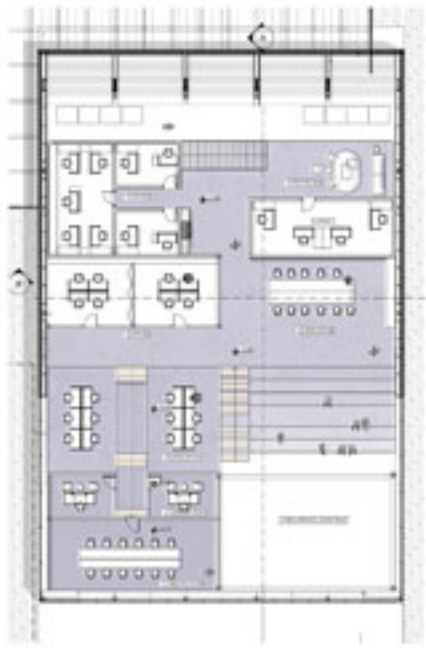
Drones suspended by a sliding hanger system are worked on.

Sliding Hanger System

The wall is used for display and storage aircraft vehicles, materials and drones.

Ground Floor Plan

First Floor Plan

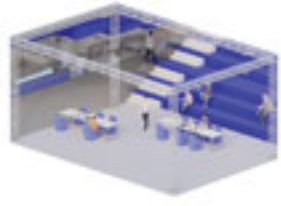


The structure of the floor brings spaces together. The ground floor consists of a cyber airspace/ workshop area, laboratories, and design spaces. The second floor consists of individual workspaces and management units.

Cyber Airspace / Workshop Area

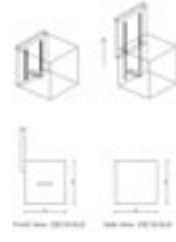
When the curtain around the structure closes, the space used as cyber airspace. It turns into a workshop area through to movable furnitures. It changes according to the needs.

WORKSHOP AREA

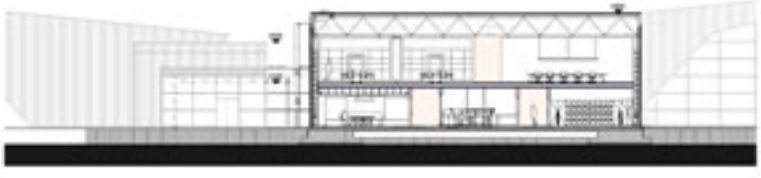


CYBER AIRSPACE

Movable furniture is stored on the facade of the spaces. The back surface rises up and creates a backrest for support

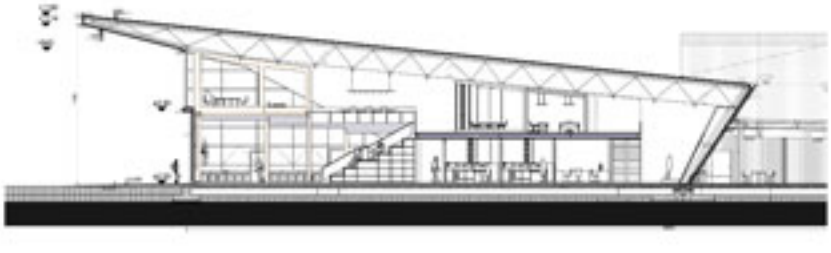


B-B Section



Laboratories

A-A Section



System Detail