



Project Title: **Shaker Village Retreat and Spa**

Student name: **James Cornetet**

Level: **Fourth Year**

Course: **Architecture Studio**

Advisor/Instructor: **Terry Boling, AIA**

Principal Investigator: **Anton Harfmann**

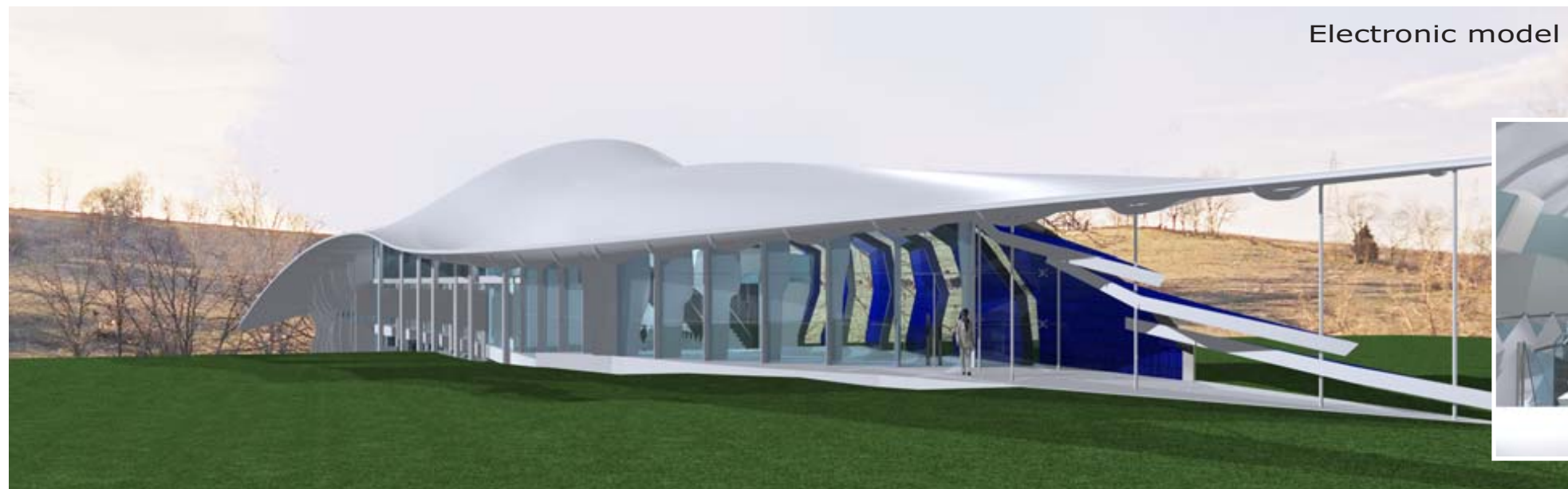
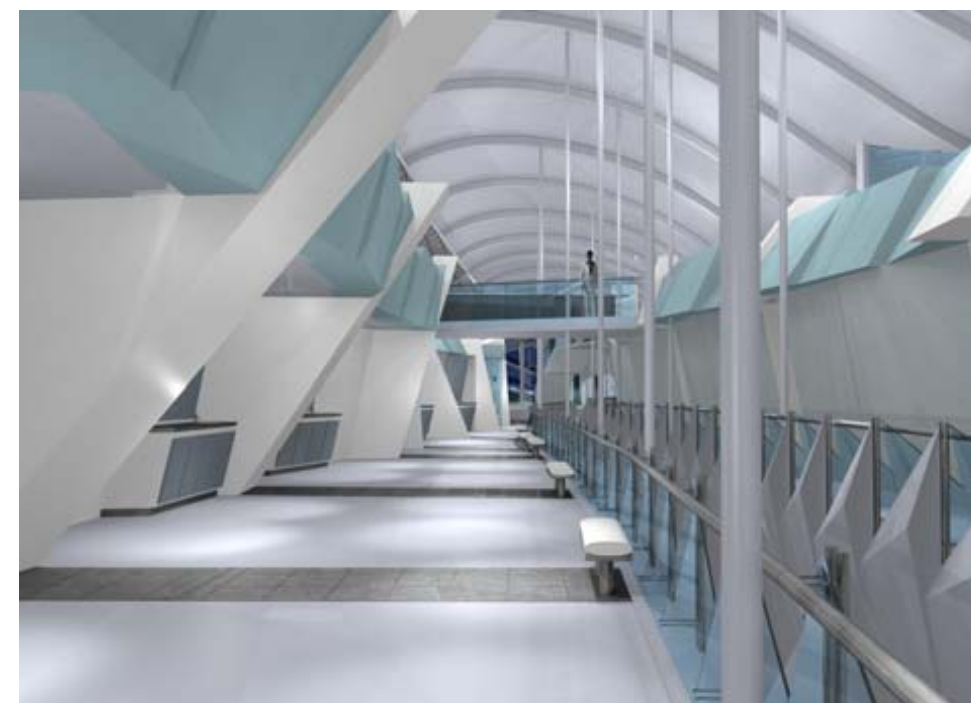
Department/School: **School of Architecture and Interior Design  
University of Cincinnati, Cincinnati, Ohio**

### Summary description of project:

The fourth year studio is a capstone, senior level architectural design studio spanning two academic quarters. The studio is "comprehensive" in that students are expected to bridge the chasm between the ephemeral nature of poetic design and the mundane reality of construction. They are responsible for incorporating structural, mechanical and construction realities into their designs not as something to add once the design is complete but, rather, as a source of stimulation throughout the design process. To test their ideas students are expected to construct large-scale physical models of their design, showing details such as mullions and connections.

### Reasons for the nomination:

This project is an intense exploration of physical form inspired by the freedom of modeling in the digital realm. What separated this project from others is the use of our five axis mill to generate physical studies of these forms in foam, which ultimately provided the formwork for the construction of a large-scale model. As a result, this project was able to retain the incredible fluid and poetic spatial characteristics of early studies while incorporating the physical realities of construction, materials, structure and mechanical systems.



Electronic model





### Jury Comments:

This was a terrific design, nicely modeled and beautifully rendered. The organic forms of the structure made it very appropriate for a fabrication project. It gave strong evidence to the fact that an architect's imagination need no longer be constrained to rectilinear forms when tools like **form•Z** exist that can not only allow free forms to be envisioned and modeled but also physically constructed.

- **Lachmi Khemlani**

Of all the entries in this category, this one best depicted both the modeling and the fabrication stages of the project. There's often an unbridgeable gap between the complex, fluid designs created in 3D modeling software and the practical demands of actually building them. The student showed commendable resourcefulness in milling the roof, with its complex surfaces, in foam to build a large-scale physical prototype.

- **Sara Ferris**



Physical model

Foam templates used for constructing the roof of the physical model.