Arch 3690
Intermediate Computation and Fabrication
Tue. 11:30 pm - 1:30 pm | Fri. 11:30pm - 1:30pm

Prof. Joseph Vidich (*jvidich@citytech.cuny.edu*)
Prof. Charlie Able (*cable@citytech.cuny.edu*)

ASSIGNMENT 03   OVERVIEW   INSTALLATION: FREE-STANDING ACRYLIC SCREEN

Your goal is to design and fabricate an interior installation, part sculptural and part proformative, which acts as a free-standing sun screening device. While primarily ornamental in nature, the installation should respond directly to light transmittance, structural requirements, and context. The installation will be located in a predefined zone of a window bay on the 8th floor of Voorhees Hall.* A basic Rhino model of the installation area will be provided.

The final installation will be made out of ” acrylic. Using “glueless” acrylic connections explored in previous assignments is strongly encouraged, but alternative fasteners (bolts, zip ties, etc.) are permitted.

Primary conceptual and formal design iterations will be done using Rhino and Grasshopper. These designs will then be further developed in Solidworks in preparation for fabrication. You will be using both the laser-cutter and 3-axis router router realize your prototypes and final design.

Assignment Timeline:

1. Part A: Precedent Studies   **(Due: Oct. 22nd)**
2. Part B: Concept Development   **(Due: Oct. 29th)**
3. Part C: Preliminary Prototyping   **(Due: Nov. 5th)**
4. Part D: MidTerm   **(Due: Nov. 15th)**
5. Part E: Design and Detail Development **(Due: Nov. 27th)**
6. Part F: Full Scale Mock-up   **(Due: Dec. 6th)**
7. Part G: Final Installation and Review **(Due: Dec. 20th)**

What you need to bring to the class:

1. **A full scale, digitally fabricated acrylic installation.**
2. **A ‘Technical Report’ documenting all process, analysis, and technical data (including orthographic drawings, diagrams, isometrics, etc.) which fully describe your system.**
3. **A digital presentation (which can be the technical report) posted to the class blog in both .JPEG and .PDF format.**

*NOTE:
  Final location and duration of installation is subject to change based upon administrative approval.