

Computer Application Journal #2

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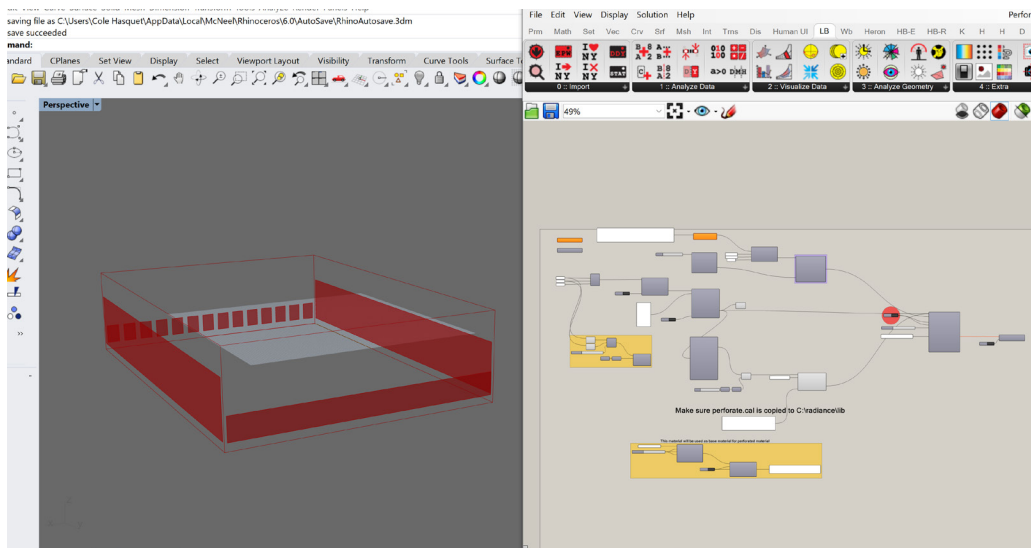
Creating a Facade

The School of Computing project currently being worked on needs a sustainable design response that is specific to the site and program. This response needs to cultivate a comfortable and efficient interior environment, while also creating a unique and intriguing external response.

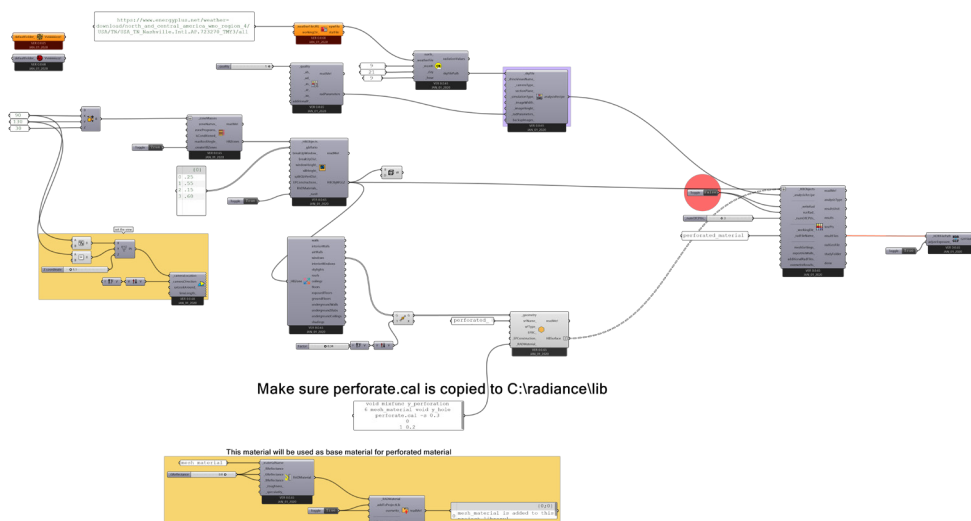
The solution is to create an operable, perforated metal facade or 'skin' that cloaks the exterior walls of the structure.

The use of the Grasshopper plugin in Rhino was employed in order to create a skin that reacts to the specific conditions on the site, and the perforation size and placement is relative to the solar gain and daylighting on each elevation. This works to reduce active system loads on the interior of the building and builds toward creating a net-zero building.

This process is not yet finished, but the script shown is in the process of creating that design response. The script was originally created by user mostaphaRoudsari on the Hydra Share website.



10/07/22



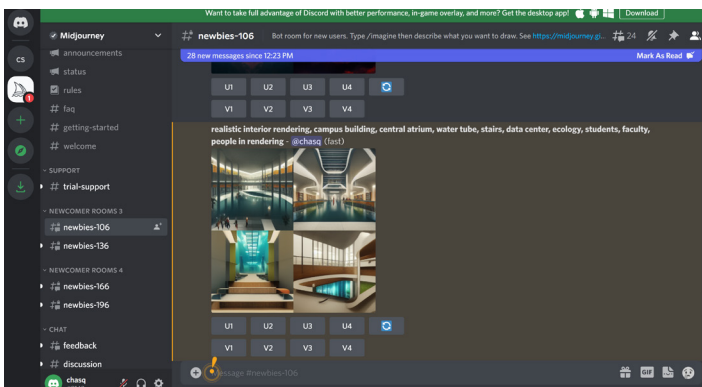
New Way of Visualization

As technology advances, we create more tools that can assist in the design process. Artificial intelligence is emerging as a more and more prominent tool to visualize and inspire.

Looking to provide a different viewpoint and collect some additional insight, the use of A.I. generated art was employed.

Midjourney is a program that allows you to input a series of words and/or phrases, it then produces images that encapsulate all of the items that you input.

This process was used with key words and phrases from my design advantage project to see what images would be conjured up.



Input and process in Midjourney (above)
Resultant Images (right)
Unrelated project input (bottom right)
Unrelated project images (below)

