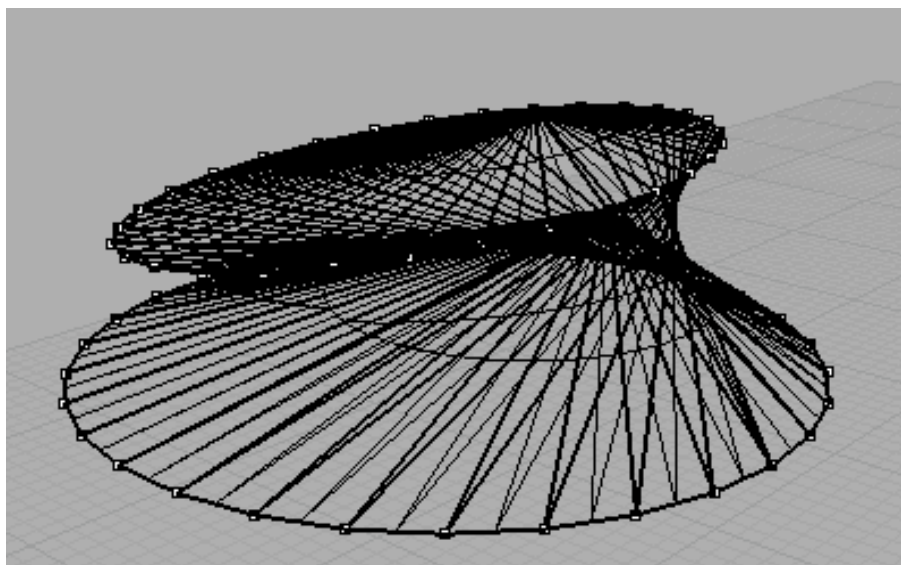
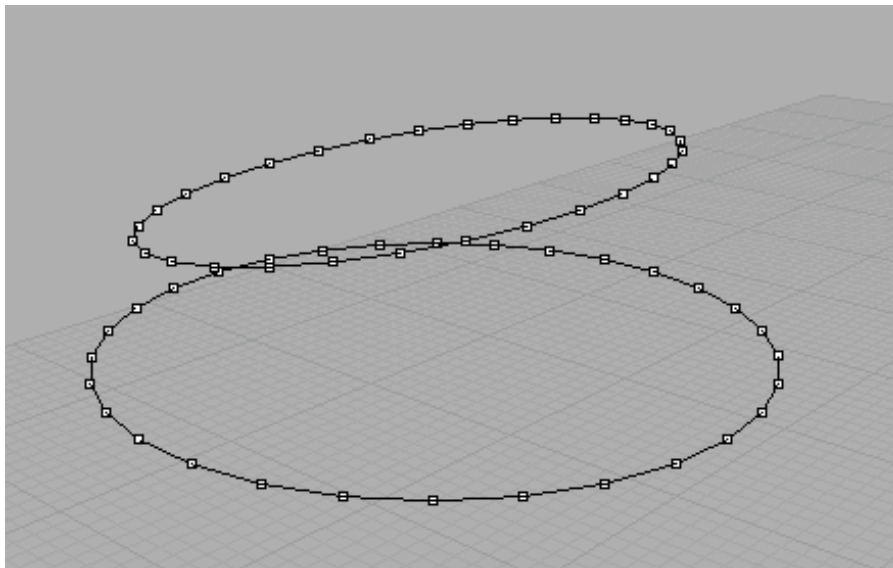


702 515 Digital Design Applications Fabrication Proposal

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The Script

Currently my script is designed to create a series of points on a given plane. The coordinates of each point are determined by an equation for a circle in Cartesian space, with variations given according to the height of the drawing plane. These points are then joined together by a series of lines, both within and between adjacent planes.

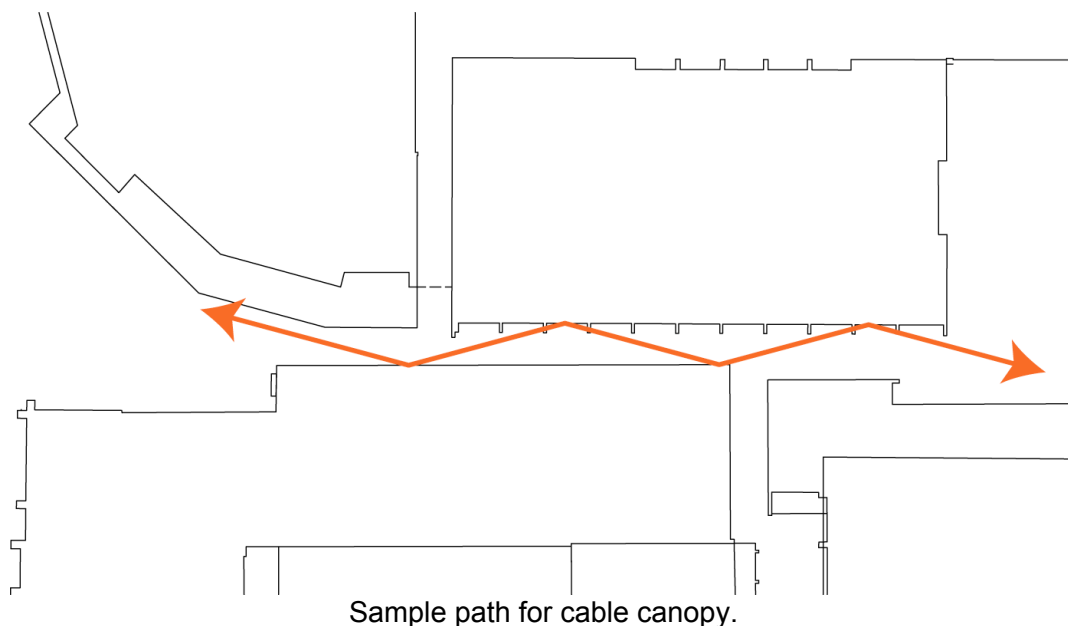


Output generated using RhinoScript.

Site Integration

For the purposes of this assignment, I propose to erect a canopy in the laneway between the Elisabeth Murdoch Building and the Physics Building. It will be constructed from plates fixed to the walls at regular intervals. Each plate will be perforated with a series of holes where a series of cables will be threaded through, connecting each plate together.

Each plate will have a distinctly different variation in its composing equation, allowing for the creation of interesting transition spaces in between. Plates will be positioned so that the cables dart back and forth as they interact with their surroundings – this will be achieved through pathfinding methods previously encountered during class.



Fabrication

To assemble this model to scale, I plan on using the laser cutter on 2.5mm MDF to create the plate profiles and the site model if required. Each plate will be cut with holes numbered to allow consistency when threading plates together. I plan on using either thin wire or string to connect the plates. Since the form relies heavily on tensile forces to achieve form, the plates will have to be secured to the site model. A massing model could be created out of MDF boards, where slots could be created to allow precision placement of the plates.