Department of Architectural Technology
COMP/FAB Certificate Program
New York City College of Technology – City University of New York
300 Jay Street, Brooklyn, New York 11201

M. Cardona, S. Yoon, Y. Koramblyum

PROJECT 02: Surfacing

DUE: March 27, Wednesday

CONTEXT:
A great building must begin with the unmeasurable, must go through measurable means when it is being designed and in the end must be unmeasurable.
—Louis Kahn

In this assignment you will define an architectural element and develop a part of that architectural element. An architectural element may be a wall, ceiling or a piece of furniture. You may use any tools at your disposal to design and develop the part that you will cnc mill.

OBJECTIVE:

In this assignment you will generate an overall architectural form. Its general specifics may remain abstract/undefined. If you decide to build a wall you decide the length and height of the wall. You will also decide where it is located. To contour using the cnc mill you must zoom into a part/area of your architectural form and generate a model for fabrication. You must consider your idea and decide the best method you will need to employ to produce the effect or form you are exploring.

Part A | ARCHITECTURAL ELEMENT CREATION:
Define and Design an Architectural Element in Rhino/Grasshopper. Locate this element in a site. You should have a site plan, a plan, axo, elevations, and visualizations. (1-10 Pages 17x11 PDF)

Part B | **SURFACE CREATION**:
Determine the part of the system that you will develop. Extract from the system a unit that you plan to cnc mill. You should have drawings of this unit. Drawings may be in the form of plan, axo, elevation. The drawings should highlight the unit as well as indicate its relationship to the units in proximity to it. (1-10 Pages 17x11 PDF)

Part C:
CNC Mill - Pink Foam (1-10 Raw Photos – on a white background)

Part D:
CNC Mill - Higher Density Foam (1-10 Raw Photos – on a white background)

Part E:

Rhino Model + Rhino Grasshopper (if applicable) with saved CNC data and video / screen grabs recording the steps taken by you to document the cnc instructions.