Staff Post-Survey

1. Before this workshop, what was your familiarity with CNC machines?
    - ☐ I was very familiar with CNC machines
    - ☐ I was somewhat familiar with CNC machines
    - ☐ I had minimal familiarity with CNC machines
    - ☐ I had no familiarity with CNC machines

2. Please rate the effectiveness of the following workshop components on your learning. (Very Ineffective to Very Effective)
    A. The accompanying zine
    B. Conceptual framework of "collaboration" between you and the CNC machine
    C. Small class size
    D. Hands-on demonstration
    E. Example projects

3. Please rate your ability to begin a project with the CNC at the Design Center:
    - ☐ Proficient: I would be able to complete a project on the CNC with the resources provided, without additional research.
    - ☐ Competent: I would know what questions to ask about my project and could begin that research independently, utilizing the resources provided as well as online materials.
    - ☐ Developing: I would have some idea of how to research my questions but would also need some guidance.
    - ☐ Beginning: I would need guidance on where to start.

4. Please rate the following statements between 1 (Strongly Disagree) and 5 (Strongly Agree)
    - ☐ I am interested in exploring how to use the CNC in the Design Center.

- ☐ I am likely to use the CNC in the future.
- ☐ I perceive barriers to learning how to use the CNC.
- ☐ I feel intimidated by using the CNC at my current knowledge level.
- ☐ I feel ready to use the CNC at my current knowledge level.
- ☐ I have gained a deeper understanding of how to design project for CNC machining.
- ☐ I feel confident in applying this knowledge to other CNC machines
- ☐ I feel confident in applying this knowledge to other design projects.

5. What further preparation or resources (if any) do you feel you would need to lead a workshop like the one you just did?

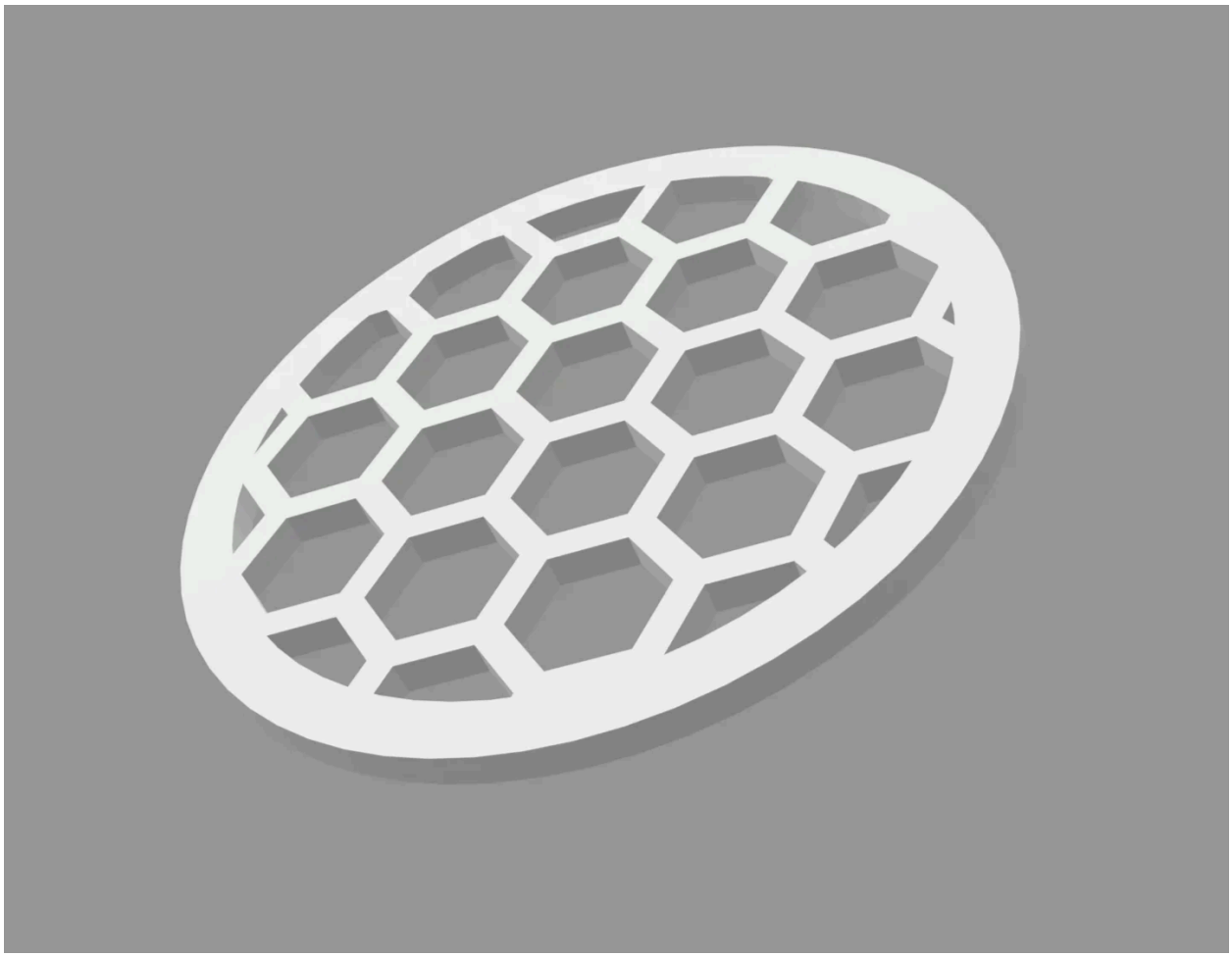
Scenario Questions: The following scenarios anticipate a range of potential questions from students using the CNC machine. In each scenario you will be asked to think about how you might respond to the student.

Scenario 1: A student tells you they want to do a project on the CNC. They have never used the CNC before, so are not sure what is possible on the machine.
How would you advise them on what types of projects are suitable for the CNC?

How would you describe your ability to answer their question?

- ☐ Proficient: I would be able to answer the question completely without additional research.
- ☐ Competent: I would know how to research the question to help the student find an answer.
- ☐ Developing: I would have some idea of how to research the question but would need some guidance.
- ☐ Beginning: I would need guidance on where to start.

Scenario 2: A student wants to carve wooden coasters with a hexagonal pattern using the following model on the CNC.



How would you advise this student? (Is this possible? What aspects of the finished part, if any, would be different from the original model? Are there safety considerations this student should know to CNC this part?)

How would you describe your ability to answer their question?

- ☐ Proficient: I would be able to answer the question completely without additional research.
- ☐ Competent: I would know how to research the question to help the student find an answer.
- ☐ Developing: I would have some idea of how to research the question but would need some guidance.
- ☐ Beginning: I would need guidance on where to start.

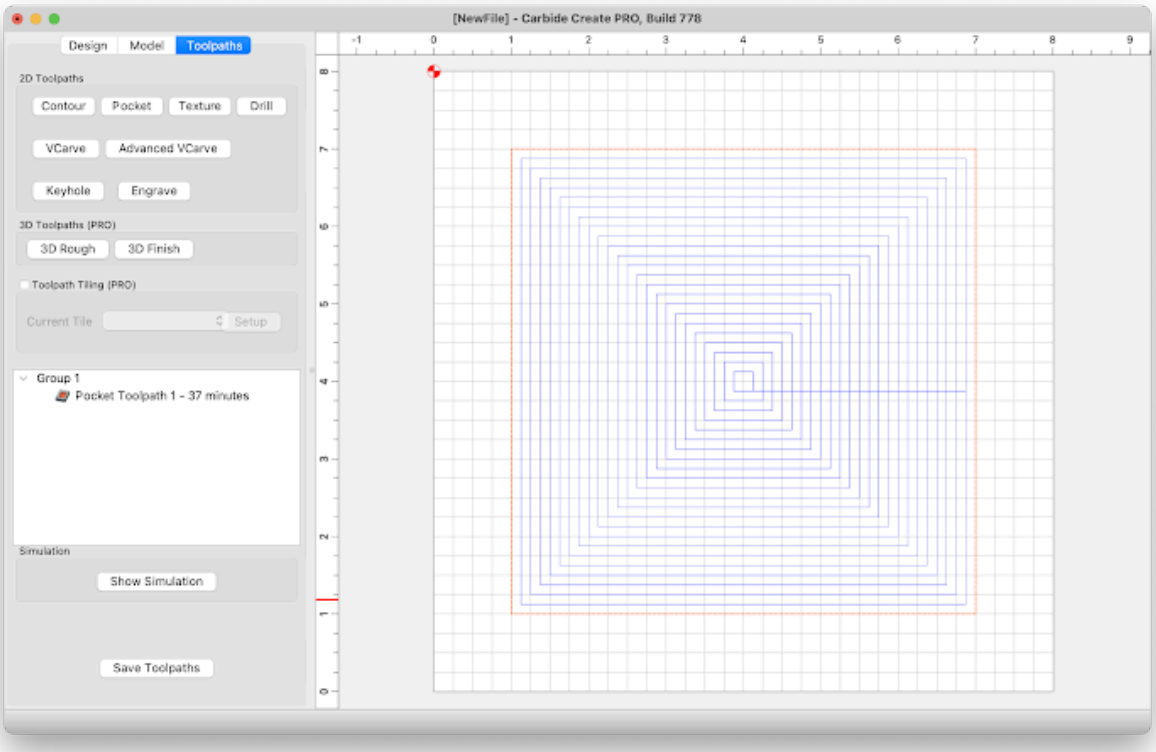
Scenario 3: A student wants to carve a sculpture using the following model on the CNC.

How would you advise this student? (Is this possible? What aspects of the finished part, if any, would be different from the original model? Are there safety considerations this student should know to CNC this part?)

How would you describe your ability to answer their question?

- ☐ Proficient: I would be able to answer the question completely without additional research.
- ☐ Competent: I would know how to research the question to help the student find an answer.
- ☐ Developing: I would have some idea of how to research the question but would need some guidance.
- ☐ Beginning: I would need guidance on where to start.

Scenario 4: A student is making a frame and using the CNC to cut out a square hole. They present you with the following tool path and simulation:



What other ways can you cut out this square? Are there other methods that are more efficient (in terms of saving time and material) than the student's plan? Why or why not?

How would you describe your ability to answer their question?

- ☐ Proficient: I would be able to answer the question completely without additional research.
- ☐ Competent: I would know how to research the question to help the student find an answer.
- ☐ Developing: I would have some idea of how to research the question but would need some guidance.
- ☐ Beginning: I would need guidance on where to start.

Scenario 5: A student tells you that the simulation is estimating their file will take 10 hours to complete, and they're not sure why the estimate is so long.
How would you advise this student? What would you check first?

How would you describe your ability to answer their question?

- ☐ Proficient: I would be able to answer the question completely without additional research.
- ☐ Competent: I would know how to research the question to help the student find an answer.
- ☐ Developing: I would have some idea of how to research the question but would need some guidance.
- ☐ Beginning: I would need guidance on where to start.