RPL Nano-01 Deliverables

This guide contains the deliverables associated with the first shift of Nanoscribe training

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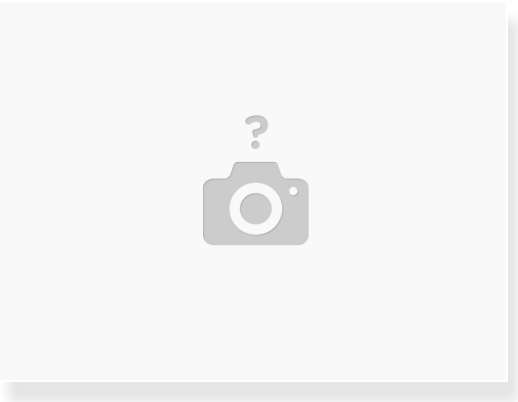
Introduction

Please view this guide in Operator View, using your name in lower case as the reference code (e.g. testudoterrapin). You can use this code to resume your session, if necessary.

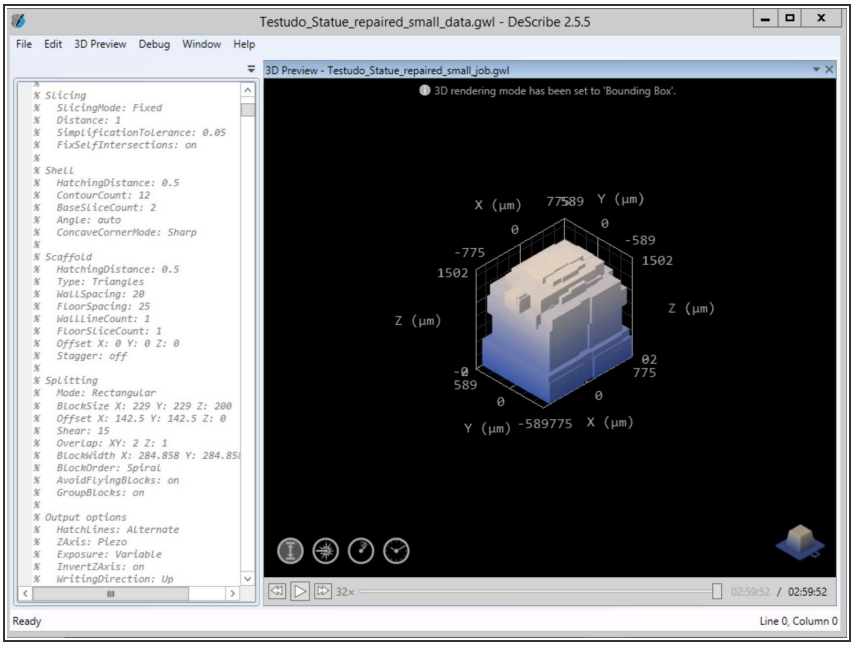
This guide will require you to practice slicing using DeScribe and to answer questions related to the first course of the Nanoscribe training. If you do not have access to DeScribe, you can use the University's Virtual Computer Lab system to access it: https://eit.umd.edu/vcl#desktops.

Step 1 — Key Takeaways



- Know the basics of how the Nanoscribe works.
- Understand how to design CAD files and export STL files to be imported into DeScribe.
- Understand the process of slicing STL files using DeScribe and how to interpret the 3D preview results.

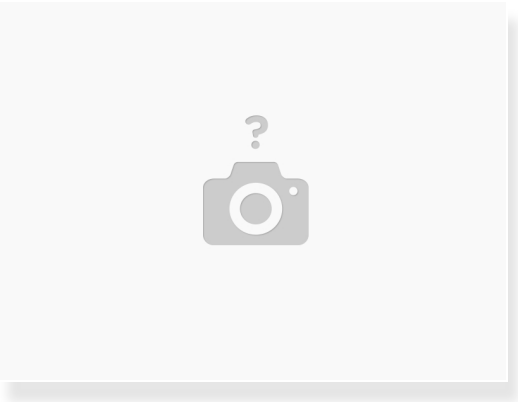
Step 2 — Slicing Practice



- Slice any STL file(s) for the following print configurations:
  - 63x DiLL mode
  - 63x oil mode
  - 25x DiLL mode (Shell & Scaffold)
  - 25x oil mode (Solid)
- Upload a screenshot of the data files and 3D previews associated with each configuration. Scroll in the data file so the comments from the slicing through the output options are visible.

  You will need to generate the 3D preview using the job file, then open the data file.

Step 3 — Quiz



- Choose the print set that would be used in each the following scenarios:
  - Scenario 1: A very small part requires a resolution of 0.3 microns, but is being printed with a photoresist that may be harmful to the objective.
  - Scenario 2: A set of channels is designed that has a 0.5 mm x 0.5 mm footprint, and can be printed using any standard photoresist.