

Refresher Guide: Zortrax 3D Printer

This guide should remind you how to go from a SolidWorks model to a 3D-printed part using the Zortrax.

For further details, see the Zortrax User Guide.

Questions? Need help? Ask a mentor or e-mail mw-3dprinter@mit.edu

1. You must have an .stl or obj. file in order to use the Zortrax software:
 - a. For STL: In SolidWorks, Save As...> Save as type: STL
2.  Start Z-Suite
3. Add model:
 - a. Click  and select file or drag-and-drop.
 - b. Copy by selecting object and using CTRL + C.
4. Change view:
 - a. Use  to rotate the view,  to pan, or  to select a standard view.
 - b. Use mouse wheel to zoom in and out.
5. Choose model placement and orientation:
 - a. Select object. Use Tools  to Rotate,  to Move, and  to Scale.
 - b. Use  (Auto-Arrange) to let the program choose the orientation
 - c. Use  to split a large object.
6. Slice (generate .zcode file to prepare to send to printer):
 - a. Click PRINT. Select the Printing Profile (filament type), Layer Thickness, Speed, Infill, Support Angle, Cooling Speed. (Advanced options include Seam, Surface layers, Offset, and Advanced Infill.) Click Prepare to print!
 - b. Hit “Yes” to display .zcode. If desired, add pauses to printing (schedule material swap during print).
 - c. Click Save to SD card.
7. Move SD card to printer. On printer, navigate menu to start print:
 - a. Turn dial to scroll through options, press dial to select Models.
 - b. Select your file. Printing begins.
 - c. Platform will heat, while waiting: **Fill out Print Job Summary form.**
8. Stay for beginning of print to watch out for early errors.
 - a. Carefully remove filament that leaks onto build platform.
 - b. If necessary, cancel, pause, or have a mentor change filament during a print by pressing in the dial for 10 seconds and selecting an option.
9. Clean-up:
 - a. Wear safety gloves.
 - b. Use scraper to remove part and raft from platform. If necessary, platform can be removed after disconnecting connectors.