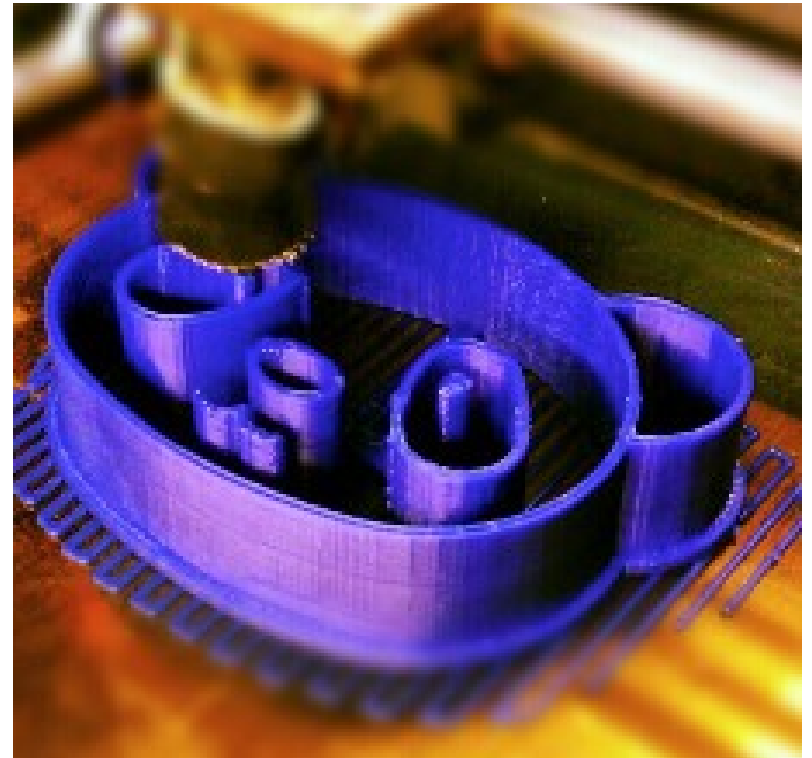
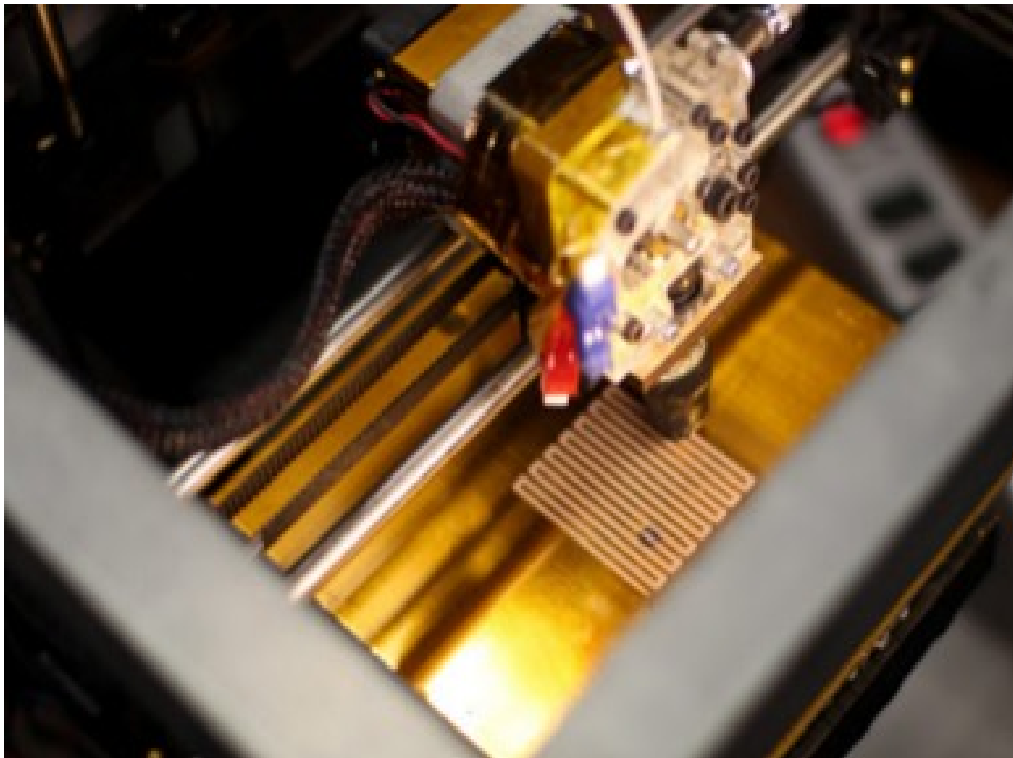
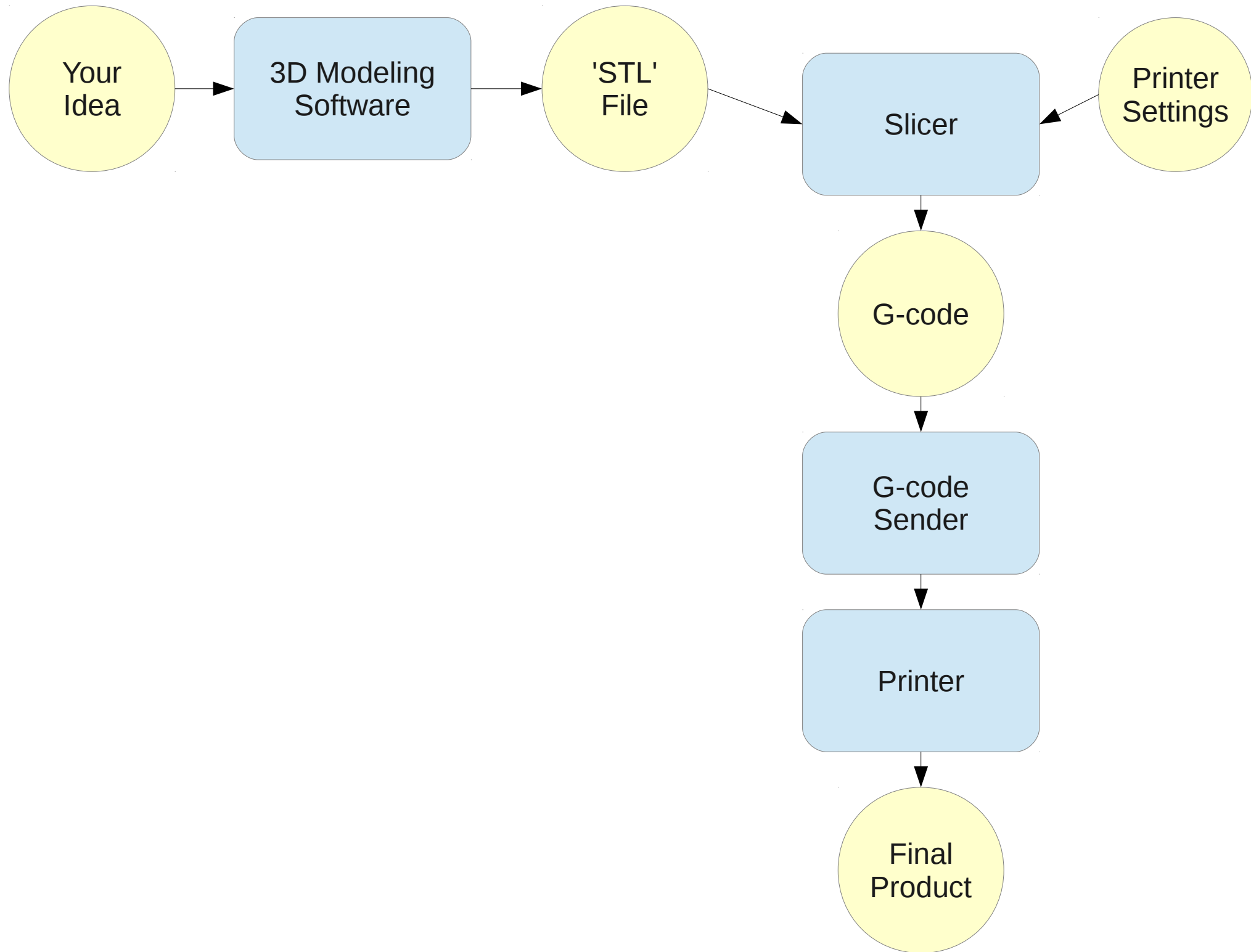
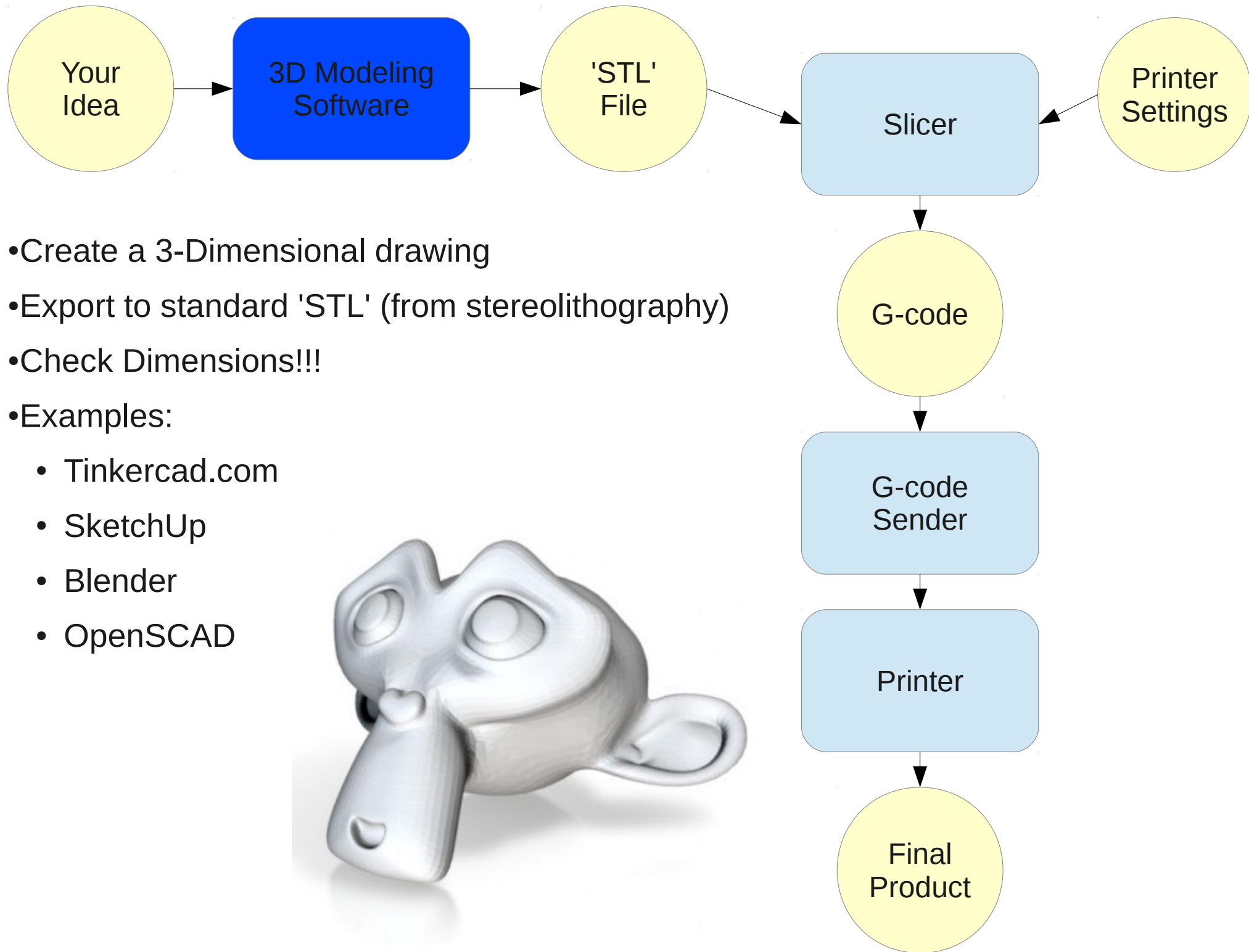




3D Printing Workshop Part 1: An Introduction

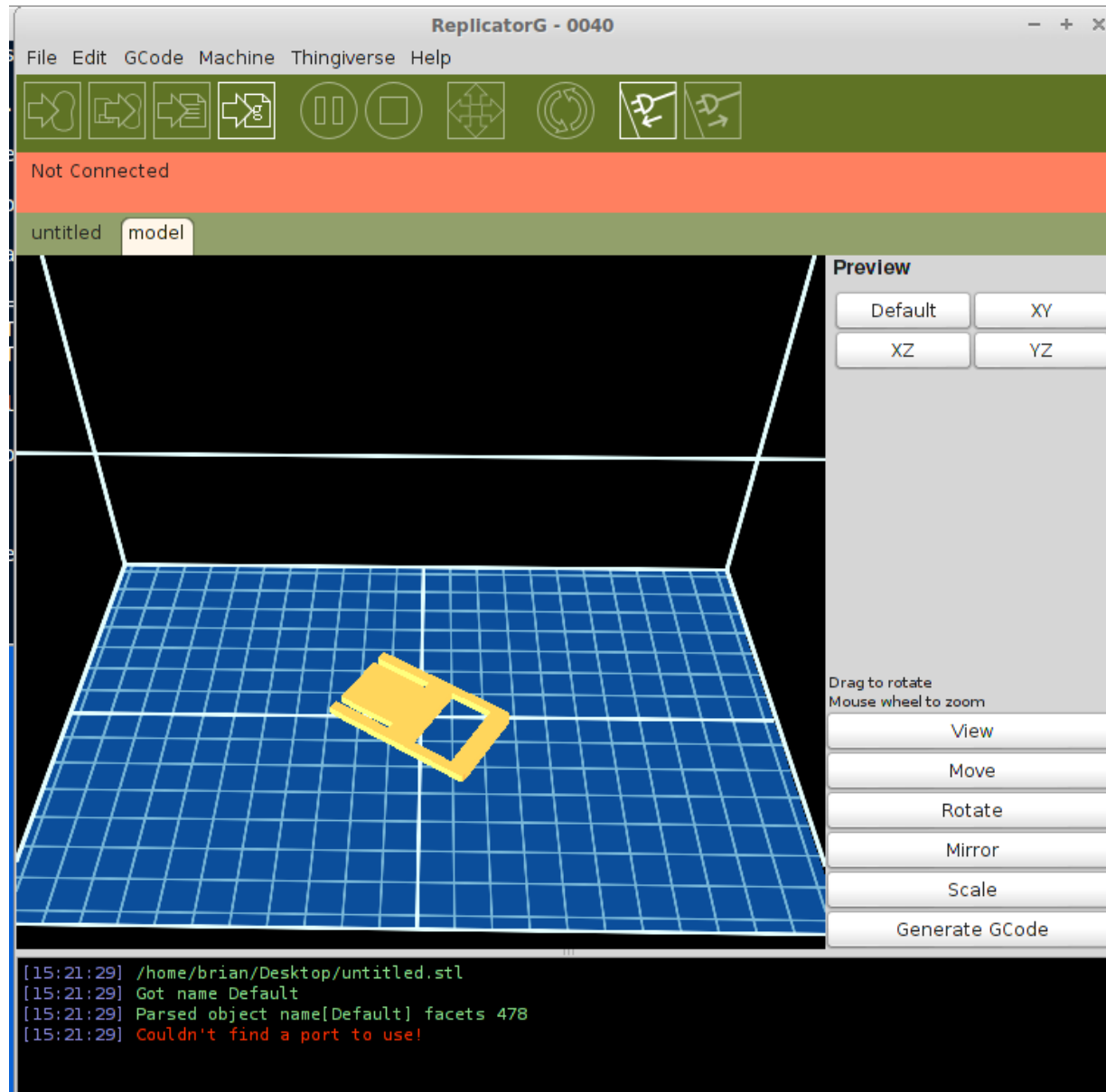






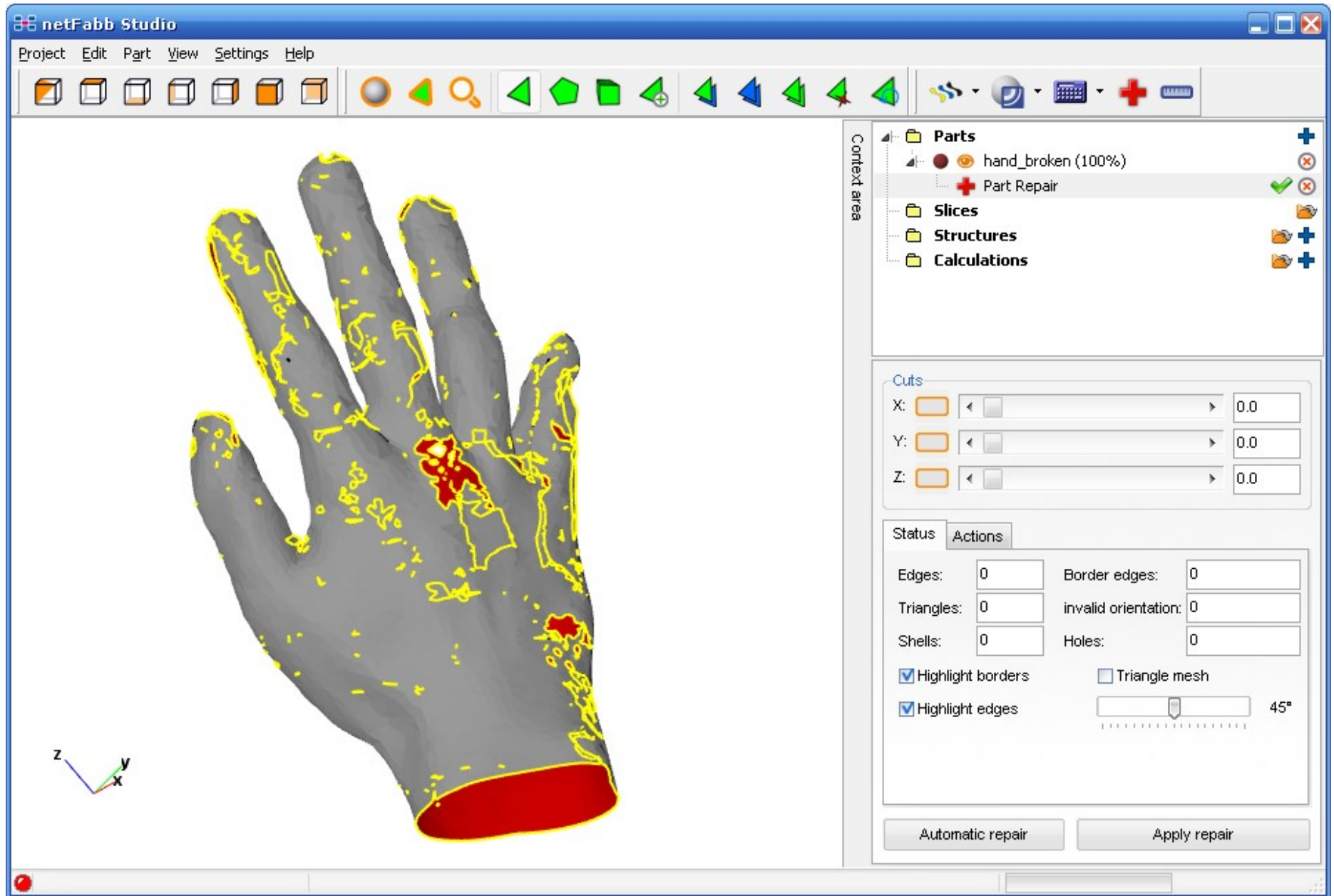
STL Post-processing:

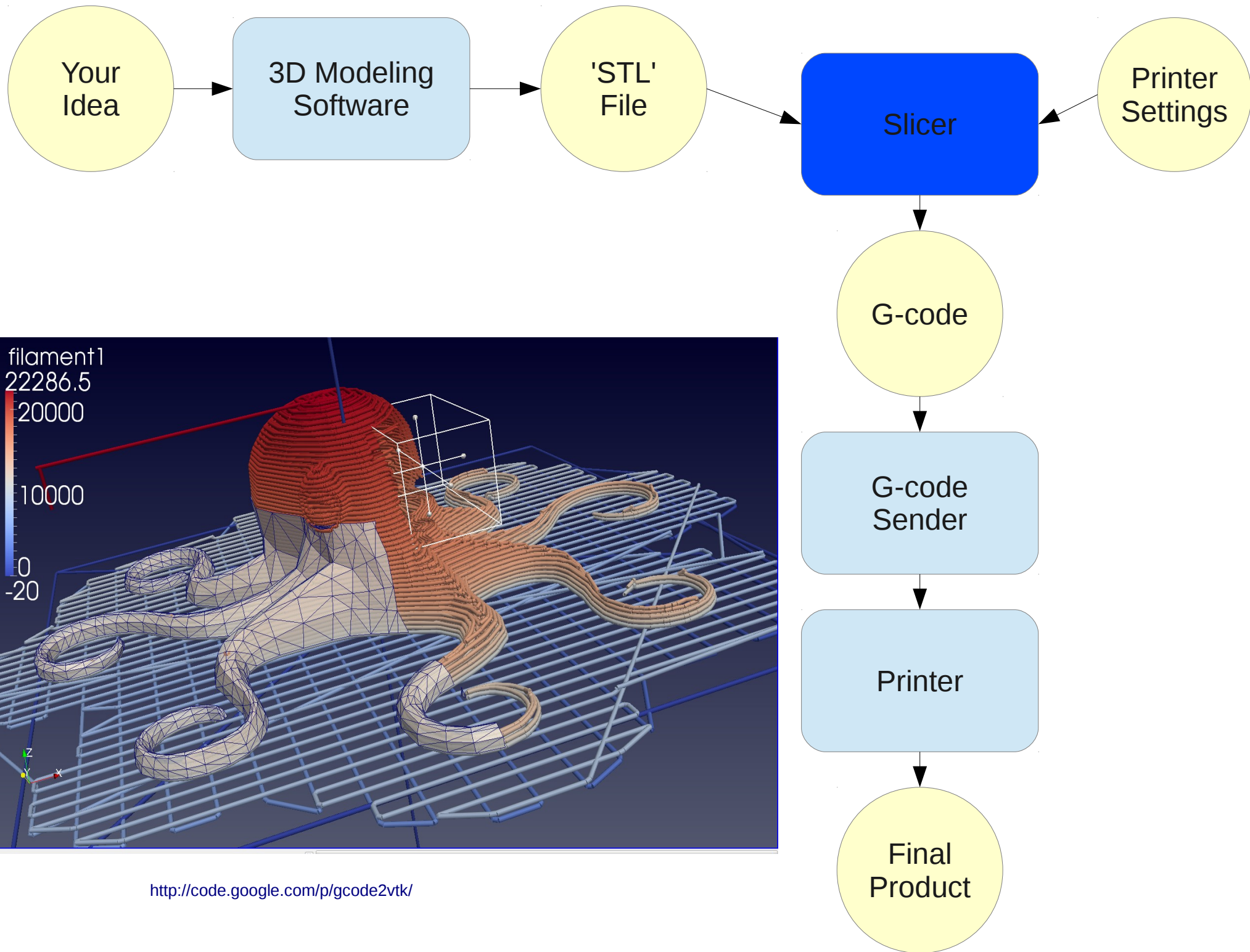
Adjust position of object on stage: with ReplicatorG
<http://replicat.org/>



STL Post-processing:

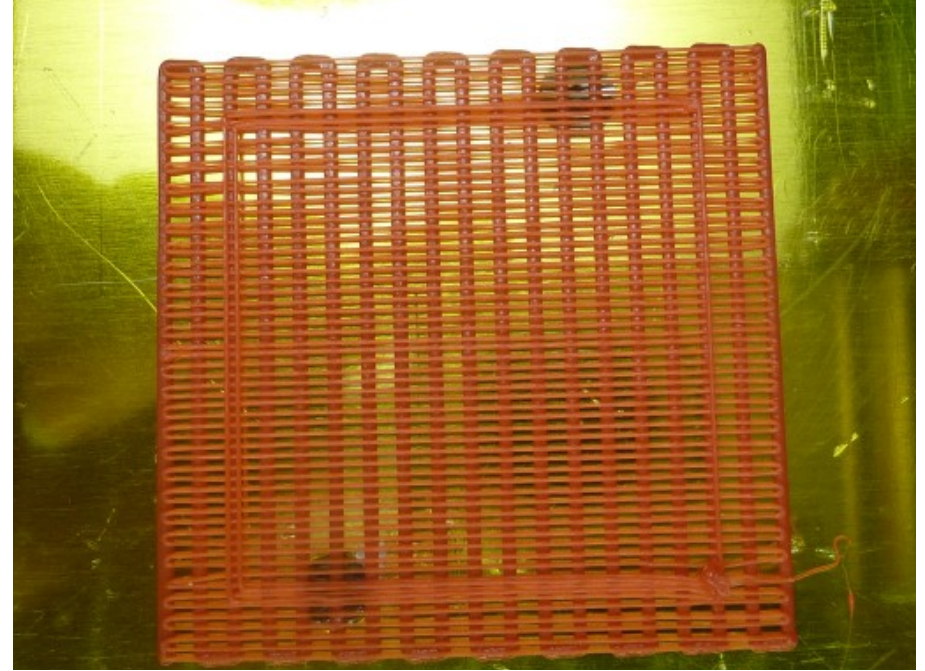
Repair STL with netFabb:
<http://netfabb.com/>





Terminology

- Raft: Sparse sacrificial layer between substrate and sample
- Interface: Layer between raft and object
- Travel rate: Extruder velocity while not extruding
- Feed rate: Extrude velocity while extruding
- Flow rate: Extrusion rate
- Thickness: Height of 1 print layer
- Width: width of single print bead
- Shells: number of solid extruded layers making up walls of your solid
- Infill: Grid pattern on interior of print



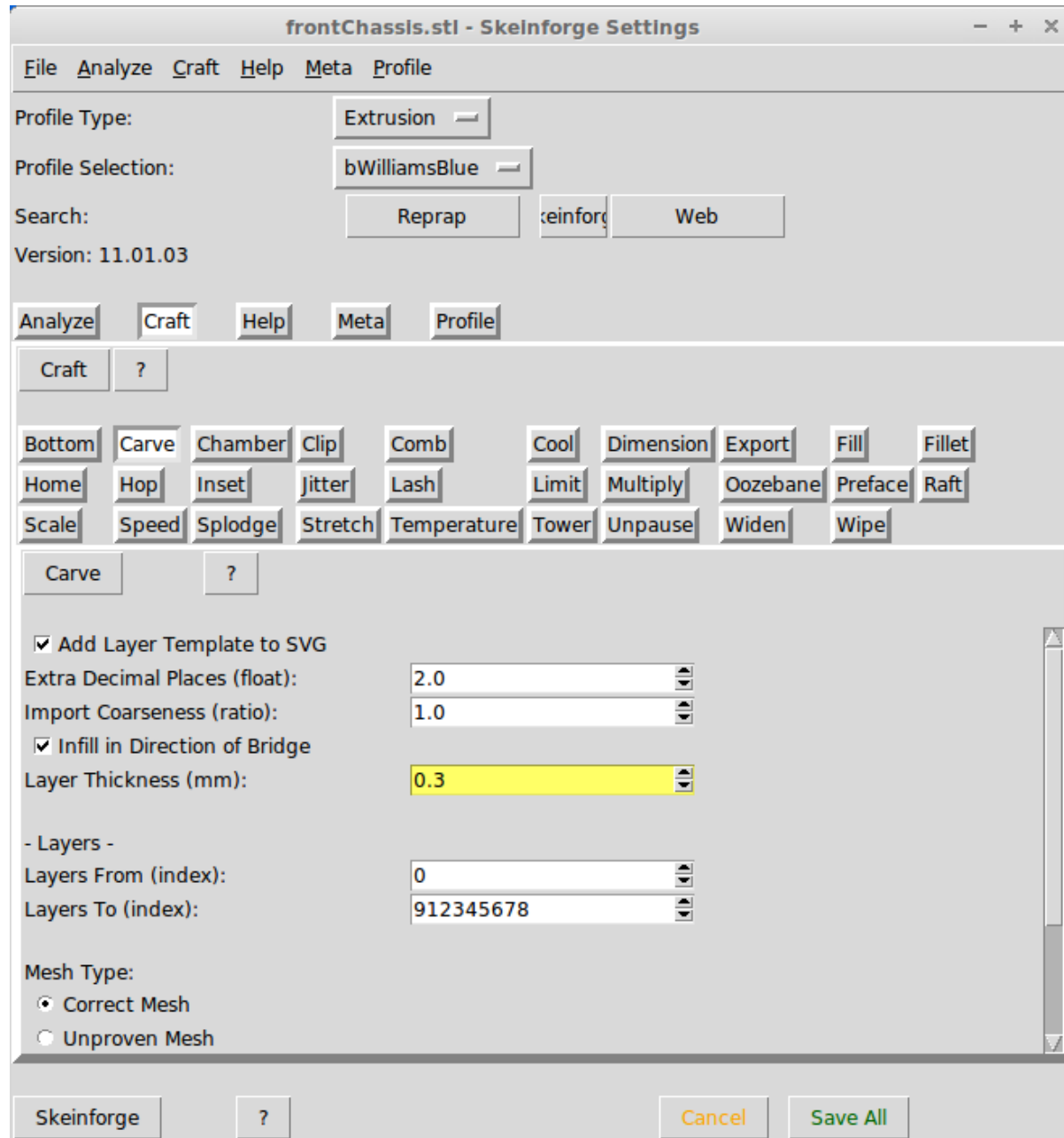
<http://solidoodletips.wordpress.com/2012/07/26/basic-settings/>



<http://richrap.blogspot.com/2012/01/slic3r-is-nicer-part-1-settings-and.html>

Skeinforge slicer settings

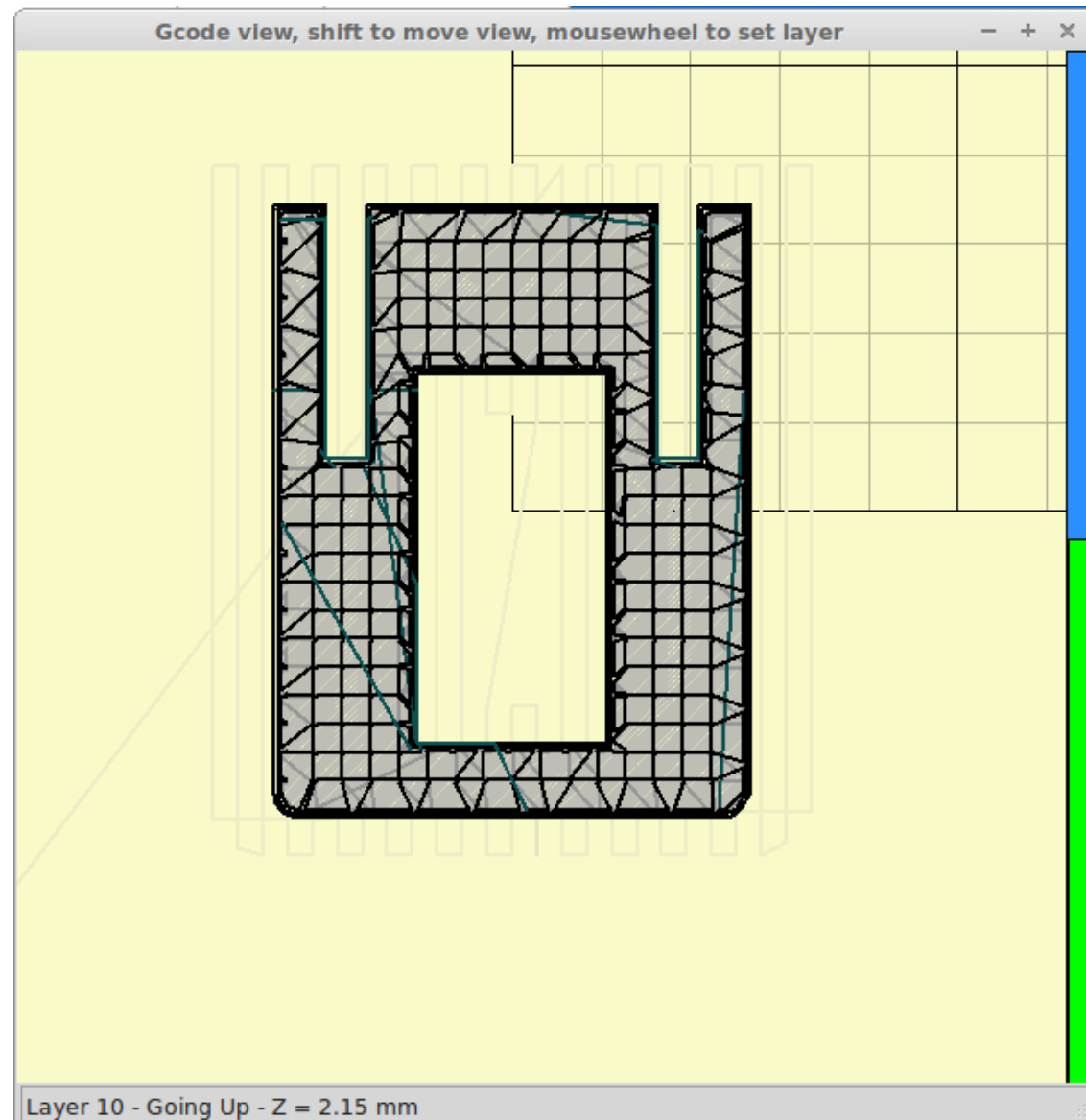
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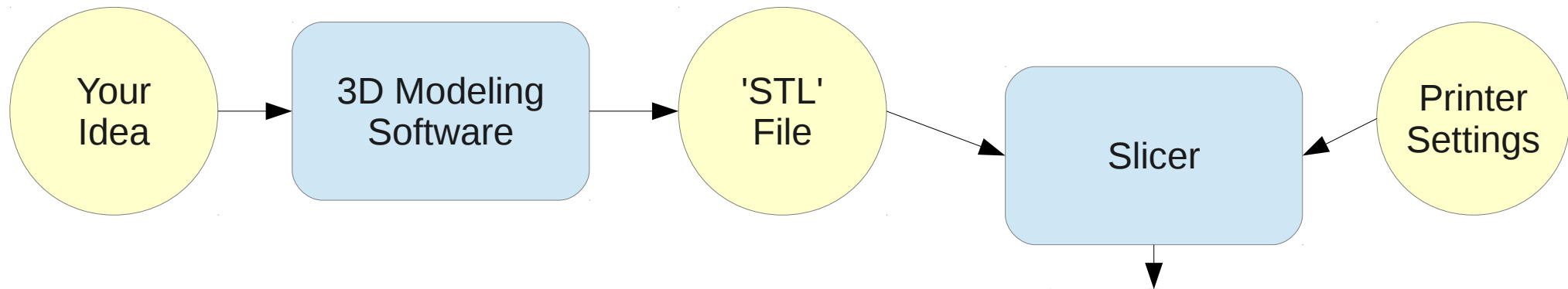


G-Code

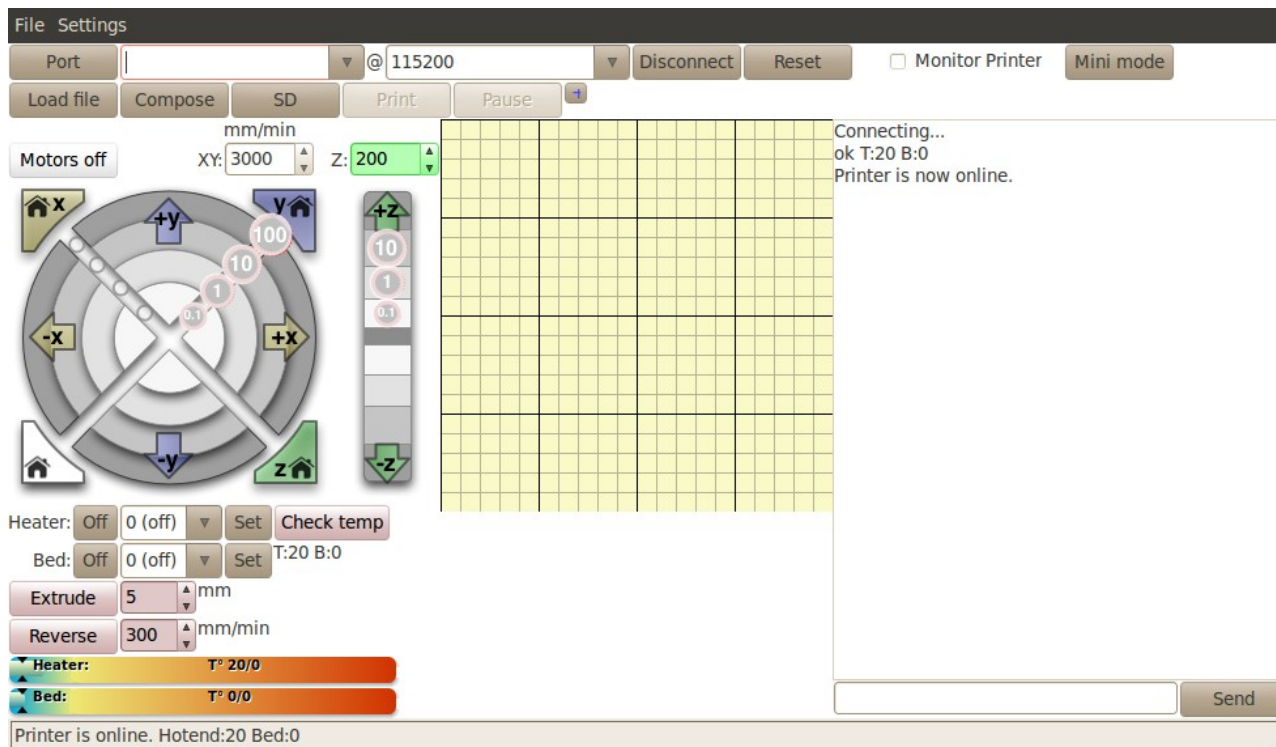
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frontChassis_export.gcode ✕
13 S1.0
14 S2.1
15 M104 S190.0
16 G1 X5.6 Y38.68 Z0.6 F2400.0
17 G1 F600.0
18 G1 E0.65
19 G1 F2400.0
20 G92 E0
21 G1 X5.6 Y-38.68 Z0.6 F750.0 E12.9972
22 G1 X8.4 Y-38.68 Z0.6 F750.0 E13.4676
23 G1 X8.4 Y38.68 Z0.6 F750.0 E26.4647
24 G1 X11.2 Y38.68 Z0.6 F750.0 E26.9351
25 G1 X11.2 Y-38.68 Z0.6 F750.0 E39.9323
26 G1 X14.0 Y-38.68 Z0.6 F750.0 E40.4027
27 G1 X14.0 Y38.68 Z0.6 F750.0 E53.3998
28 G1 X16.8 Y38.68 Z0.6 F750.0 E53.8702
29 G1 X16.8 Y-38.68 Z0.6 F750.0 E66.8674
30 G1 X19.6 Y-38.68 Z0.6 F750.0 E67.3378
31 G1 X19.6 Y38.68 Z0.6 F750.0 E80.3349
32 G1 X22.4 Y38.68 Z0.6 F750.0 E80.8053
33 G1 X22.4 Y-38.68 Z0.6 F750.0 E93.8025
34 G1 X25.2 Y-38.68 Z0.6 F750.0 E94.2729
35 G1 X25.2 Y38.68 Z0.6 F750.0 E107.27
36 G1 X28.0 Y38.68 Z0.6 F750.0 E107.7404
37 G1 X28.0 Y-38.68 Z0.6 F750.0 E120.7376
38 G1 X30.8 Y-37.0 Z0.6 F750.0 E121.2861
39 G1 X30.8 Y38.68 Z0.6 F750.0 E134.0011
40 G1 X33.6 Y38.68 Z0.6 F750.0 E134.4715
41 G1 X33.6 Y-33.64 Z0.6 F750.0 E146.6219
42 G1 F600.0
43 G1 E146.0219
44 G1 F750.0
45 G1 X-33.6 Y-34.48 Z0.6 F3000.0
46 G1 F600.0
47 G1 E146.6719
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Plain Text ▼ Tab Width: 4 ▼ Ln 29, Col 38 INS

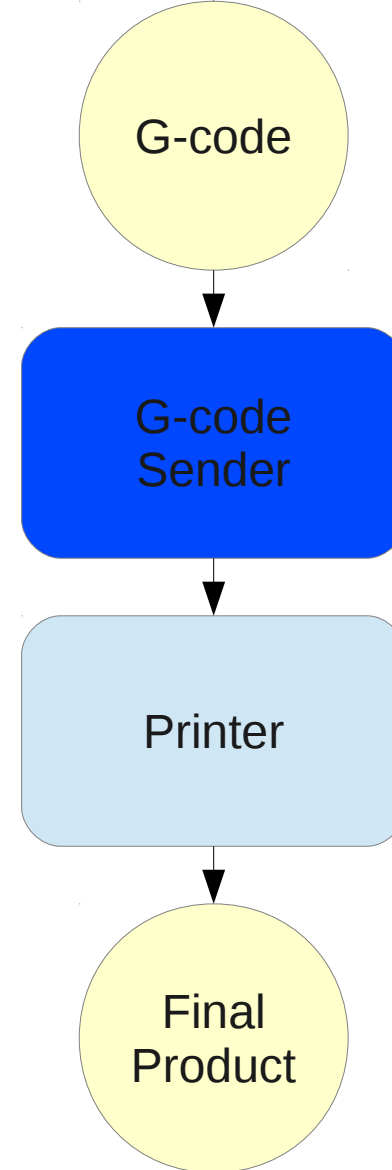


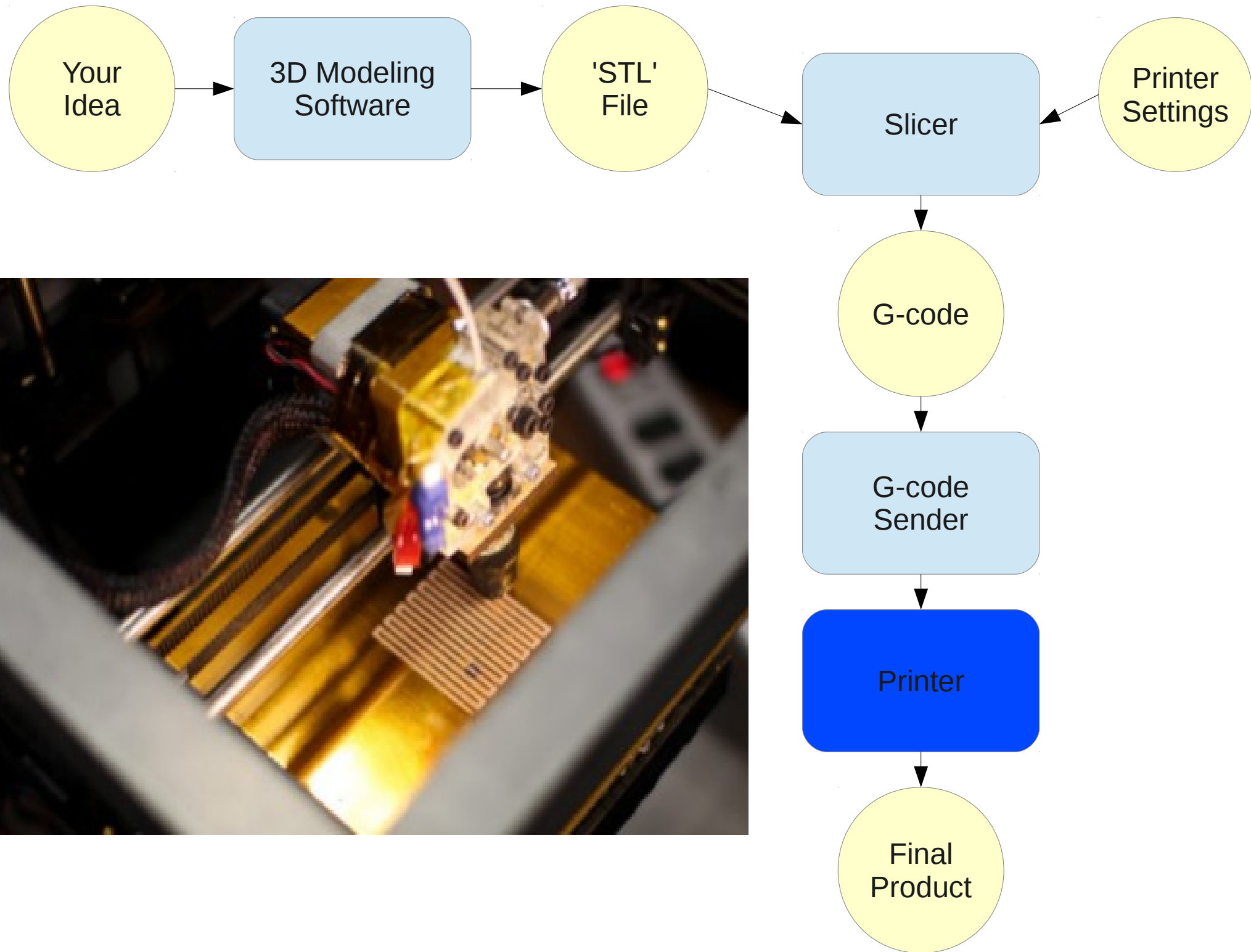


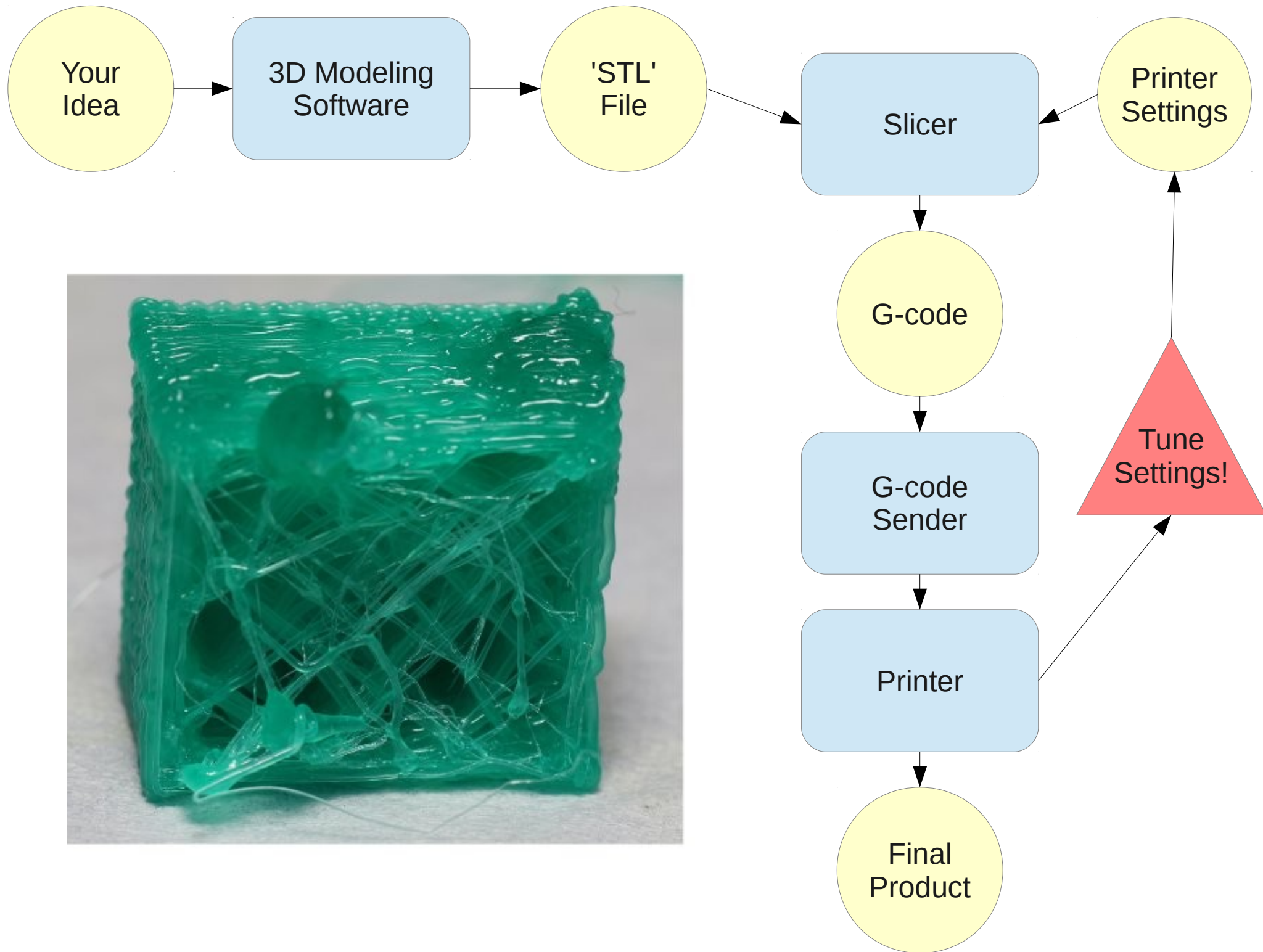
Pronterface:
<http://reprap.org/wiki/Printrun>



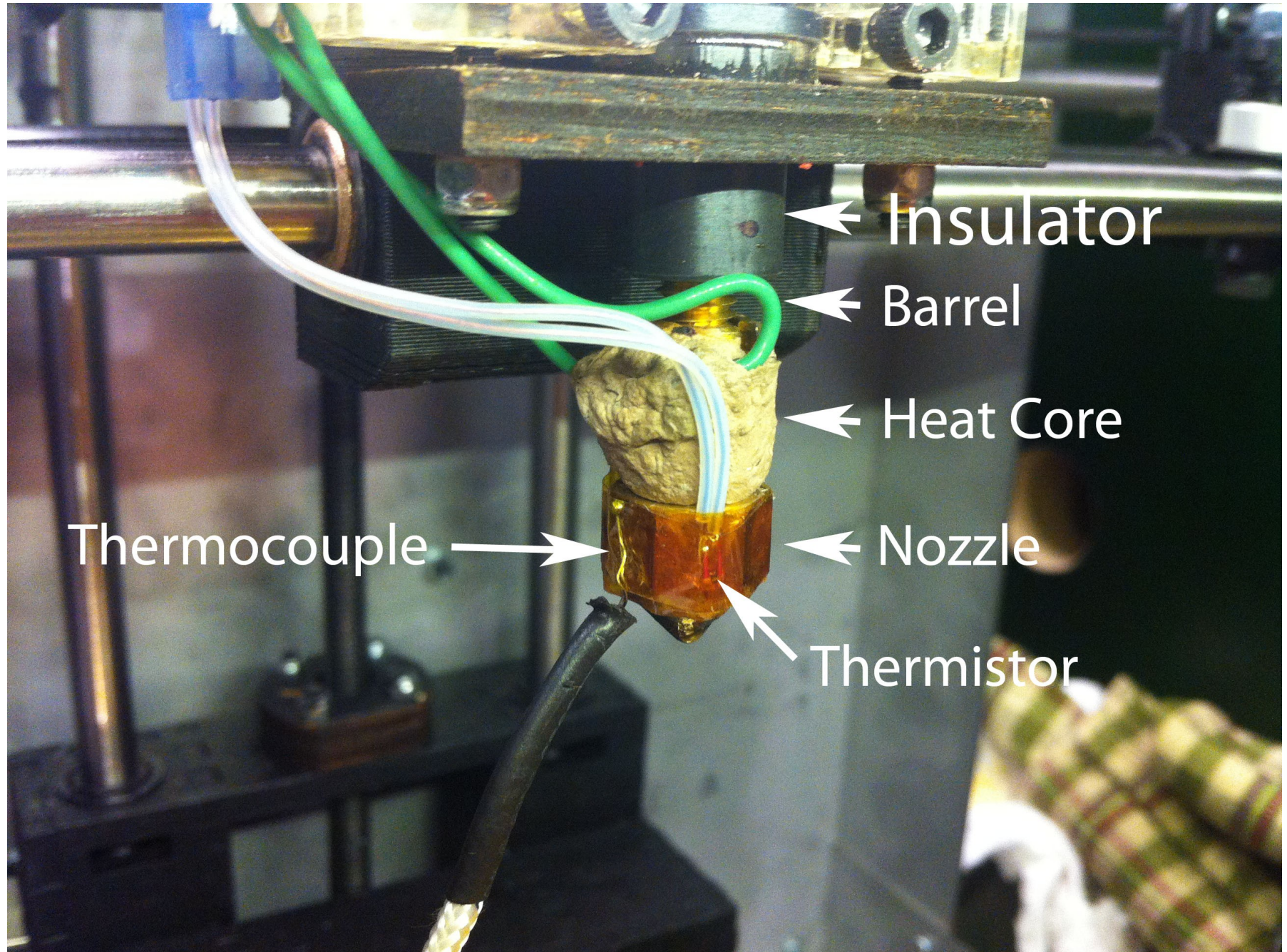
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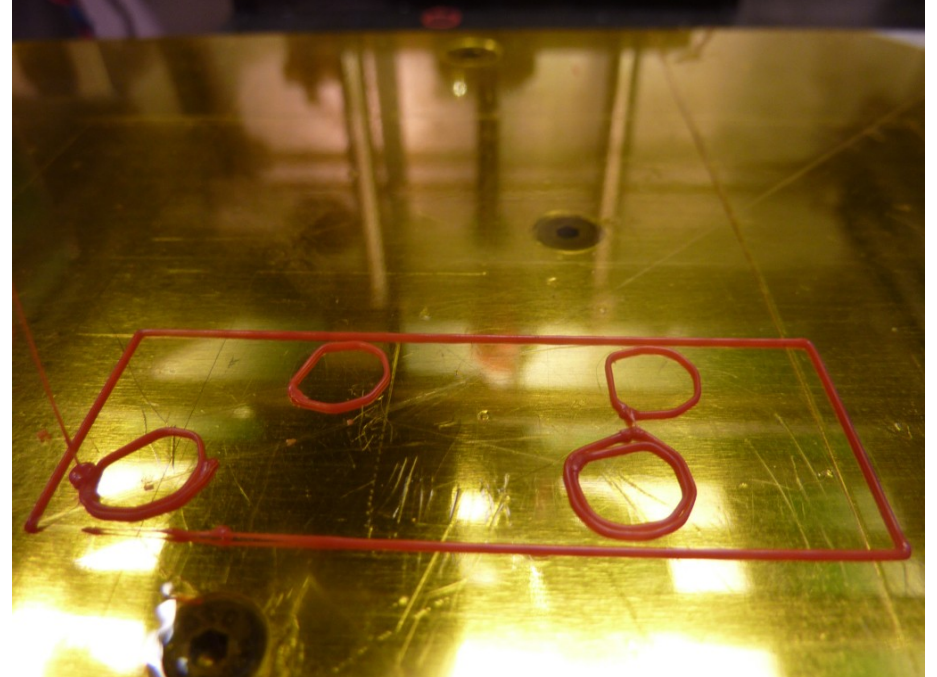
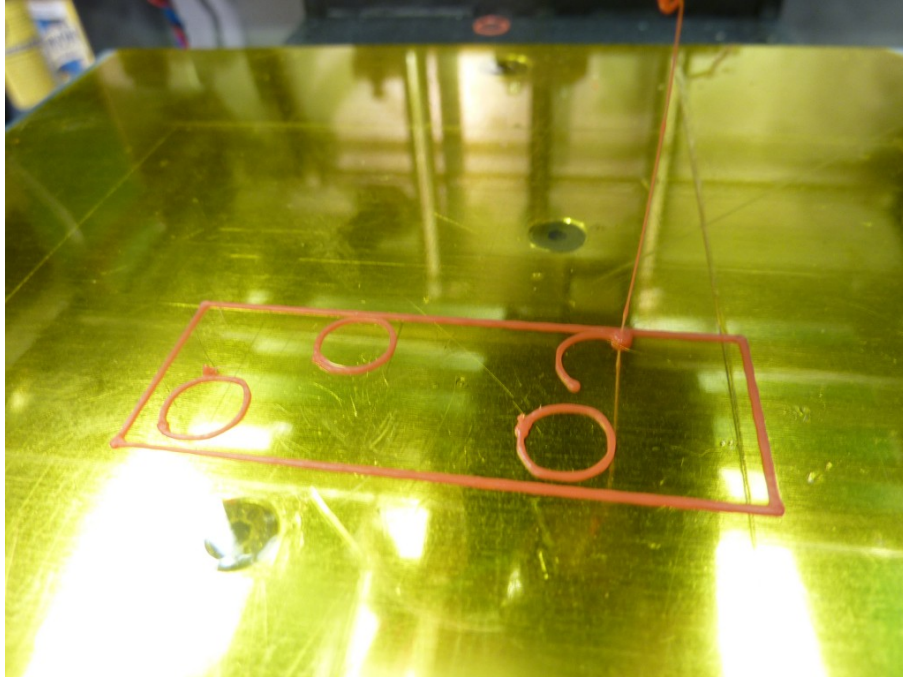
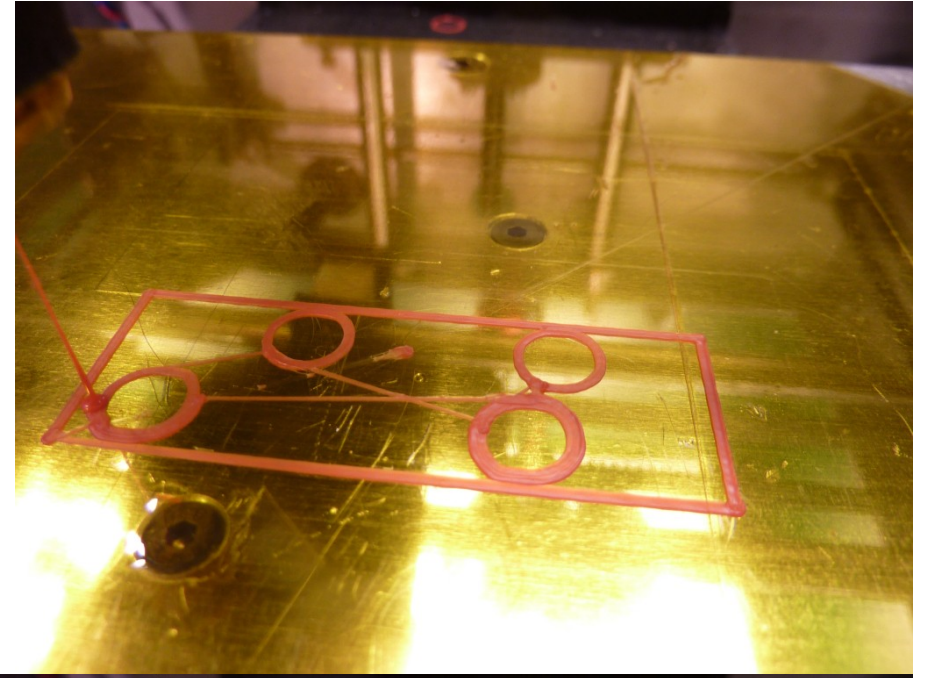
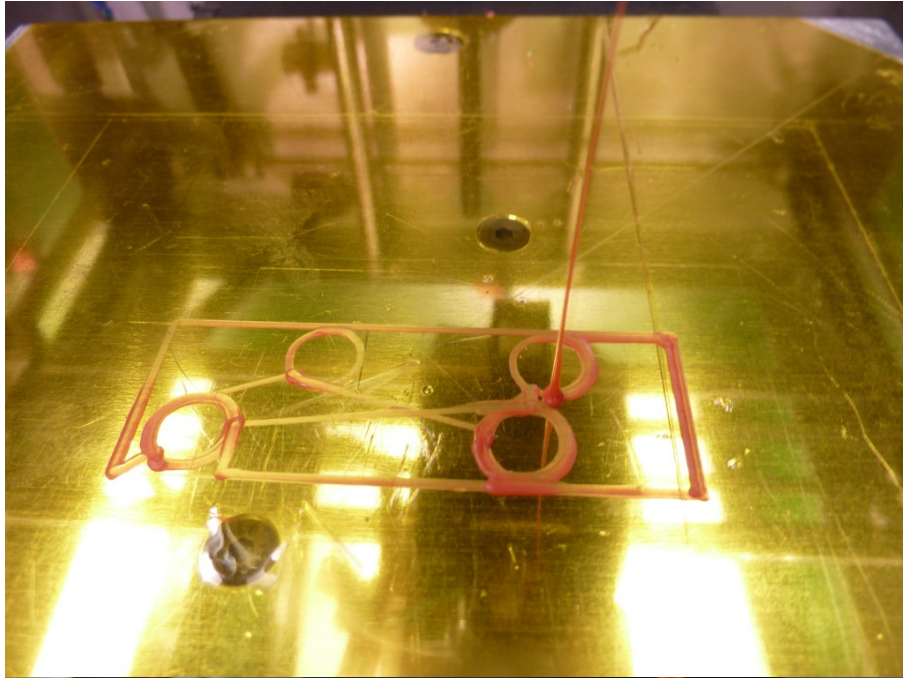




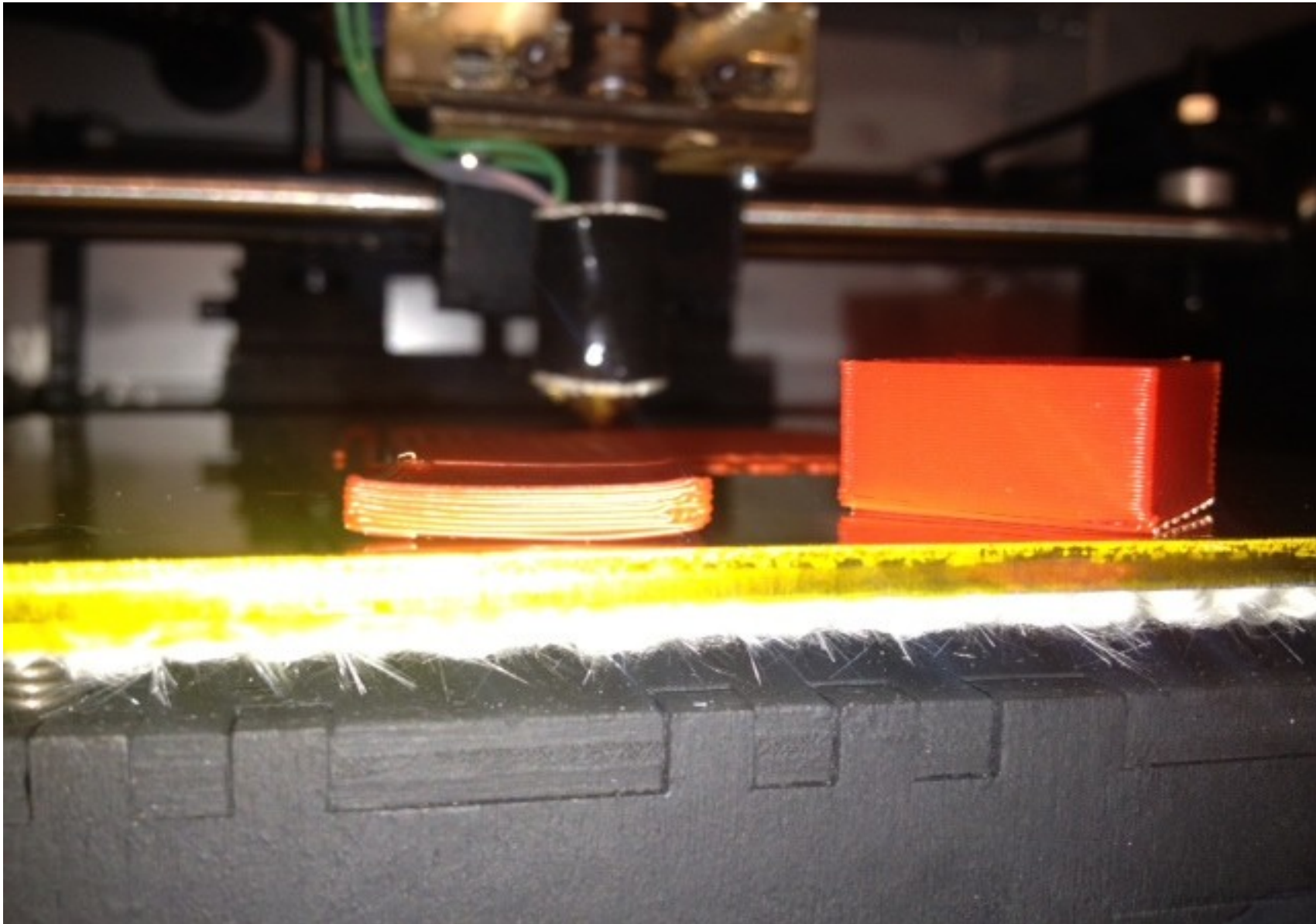
Anatomy of an nozzle



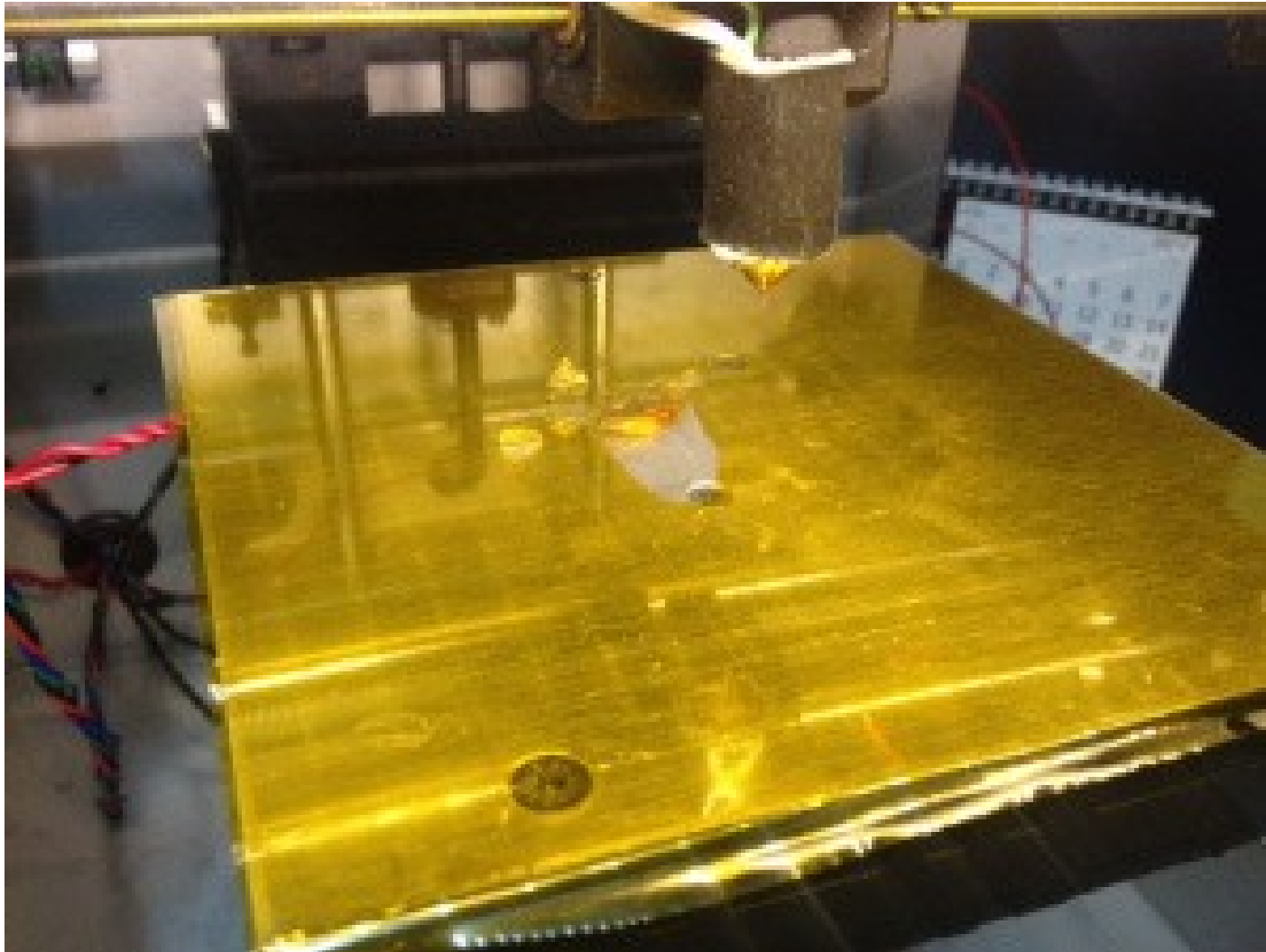
First layer height (control with z-offset screw)



Heated stage is critical for print quality!



Let stage cool to remove sample



Finishing your print

- Sanding
- Acetone
- Polishing

