

# Preparing file for 3D printing

3d printing workshop

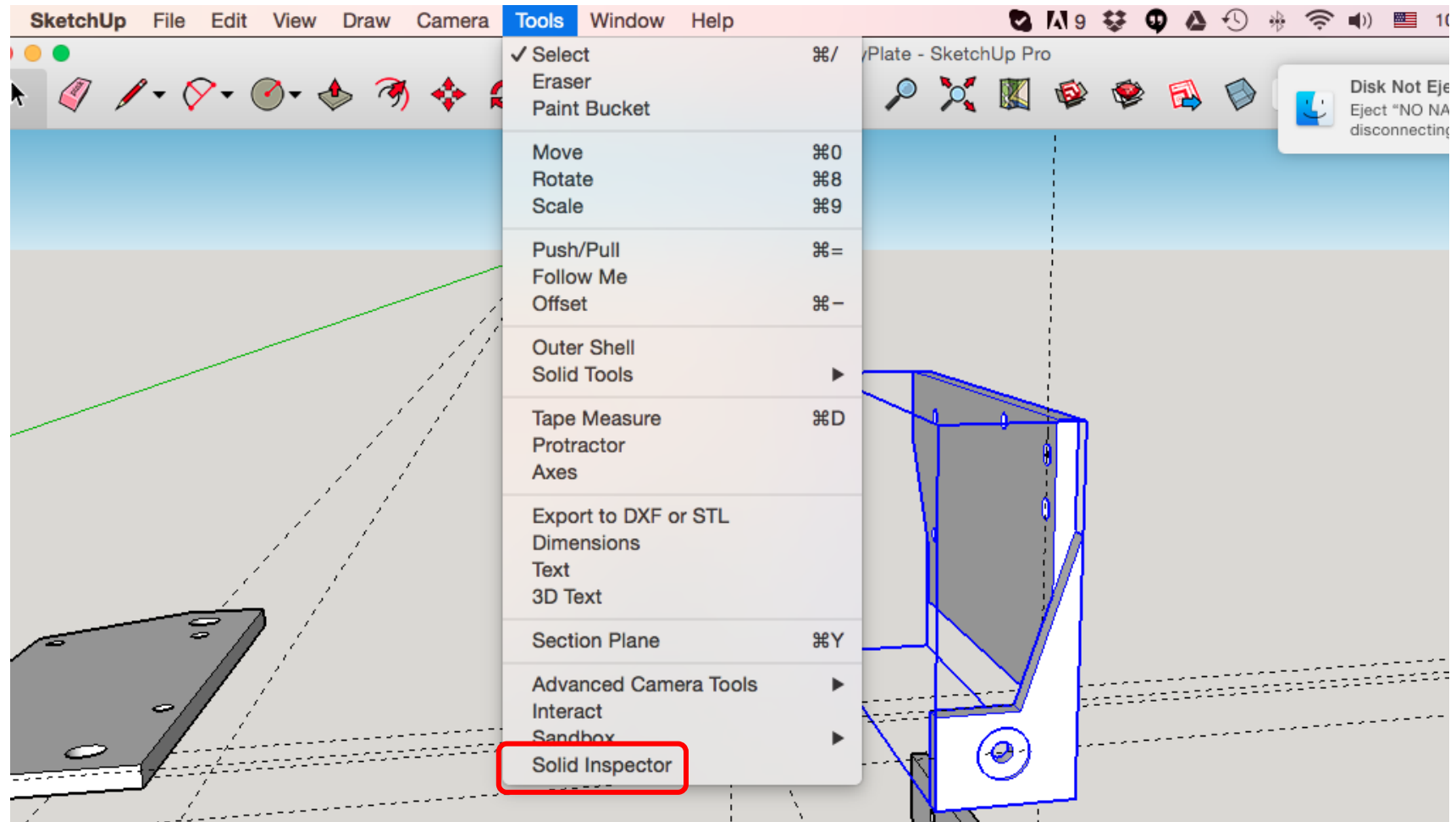
Varvara & Mar

<http://varvara-mar.info>

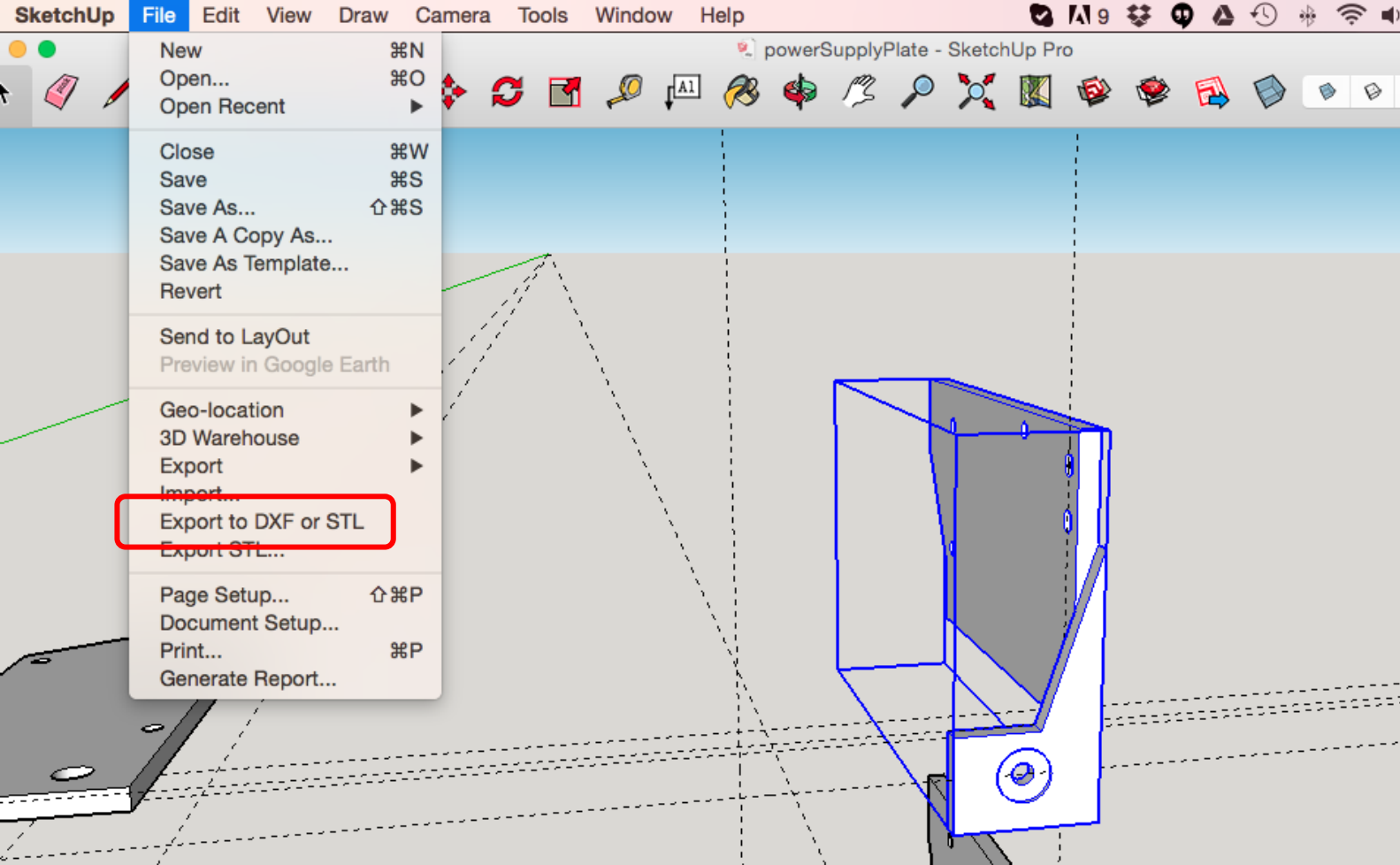
SketchUp

Install Solid Inspector extension to your SketchUp program. This expansion will help you to check if the model is solid and if not where is the problem.

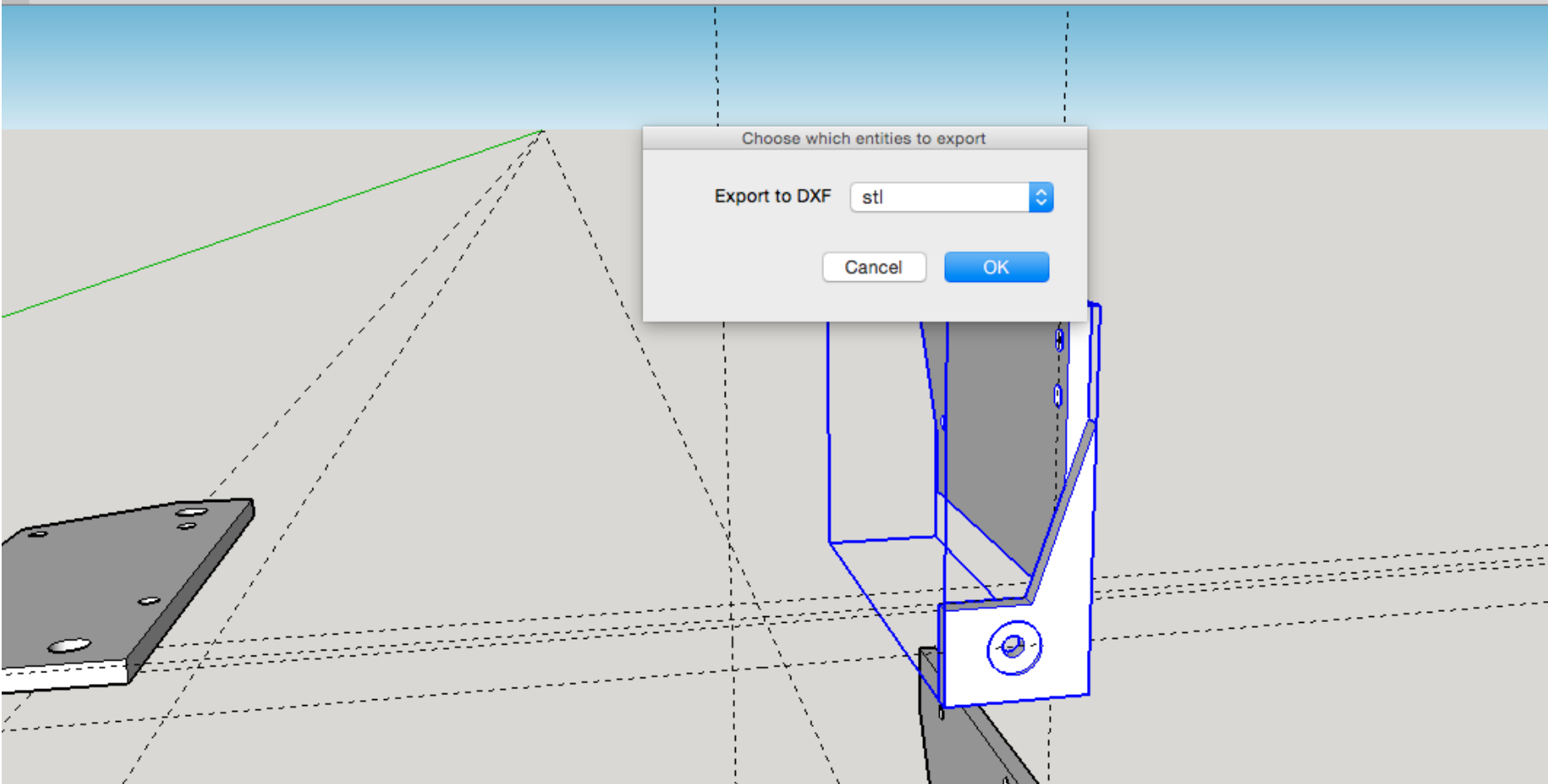
Mark the model and click Solid Inspector. If you don't see any red or orange cycles it means your model is solid.



for 3D printing you need STL file. Export your model from Sketcup as STL file.  
If you don't have this menu option, then you have to download and install Export to DXF and STL extension.







Choose which entities to export

Export to DXF

stl

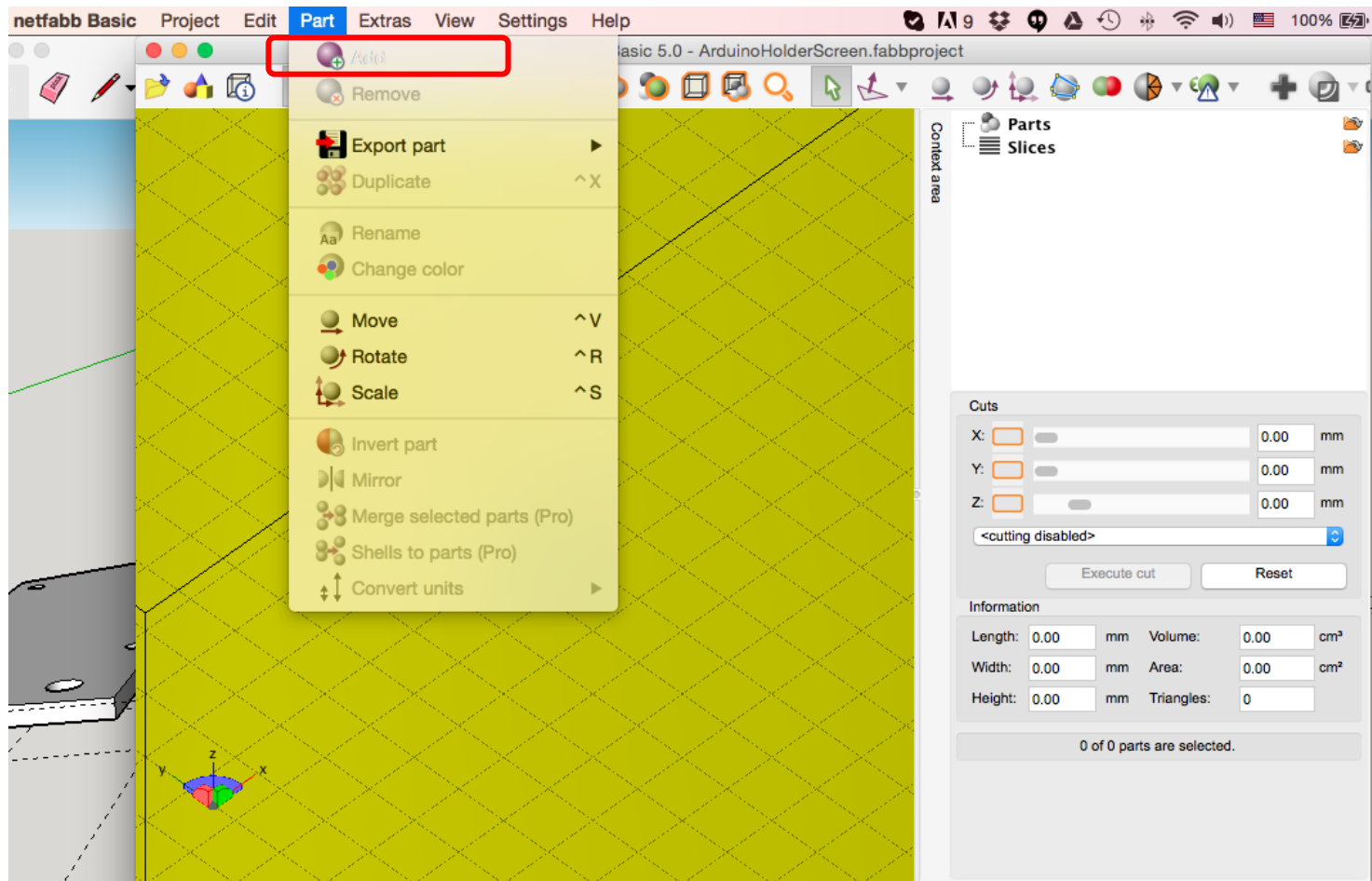


Cancel

OK

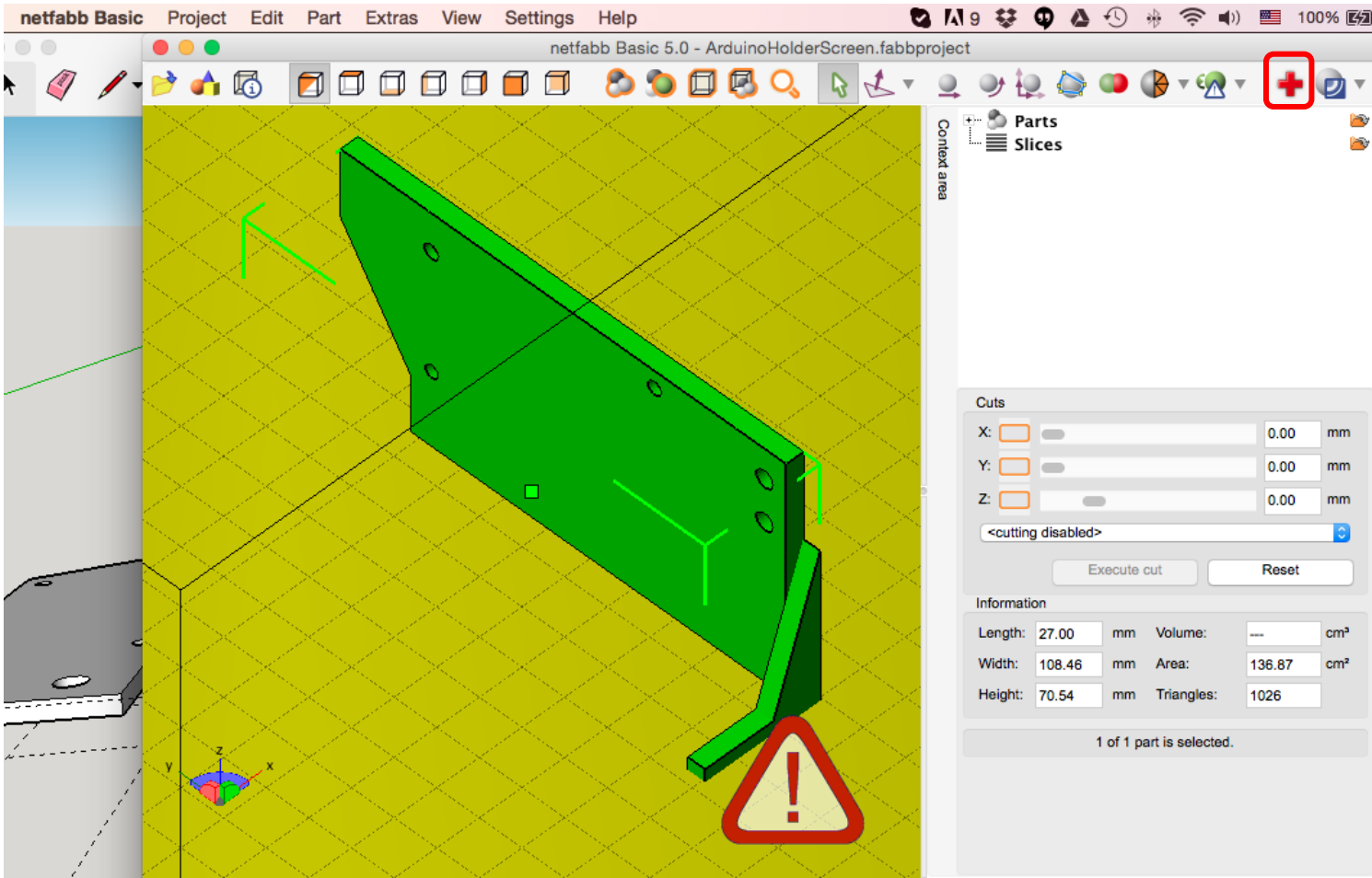
netfabb Basic

This program will check again your model mesh and corrected if needed.  
Add STL file that you exported from Sketchup: Part->Add

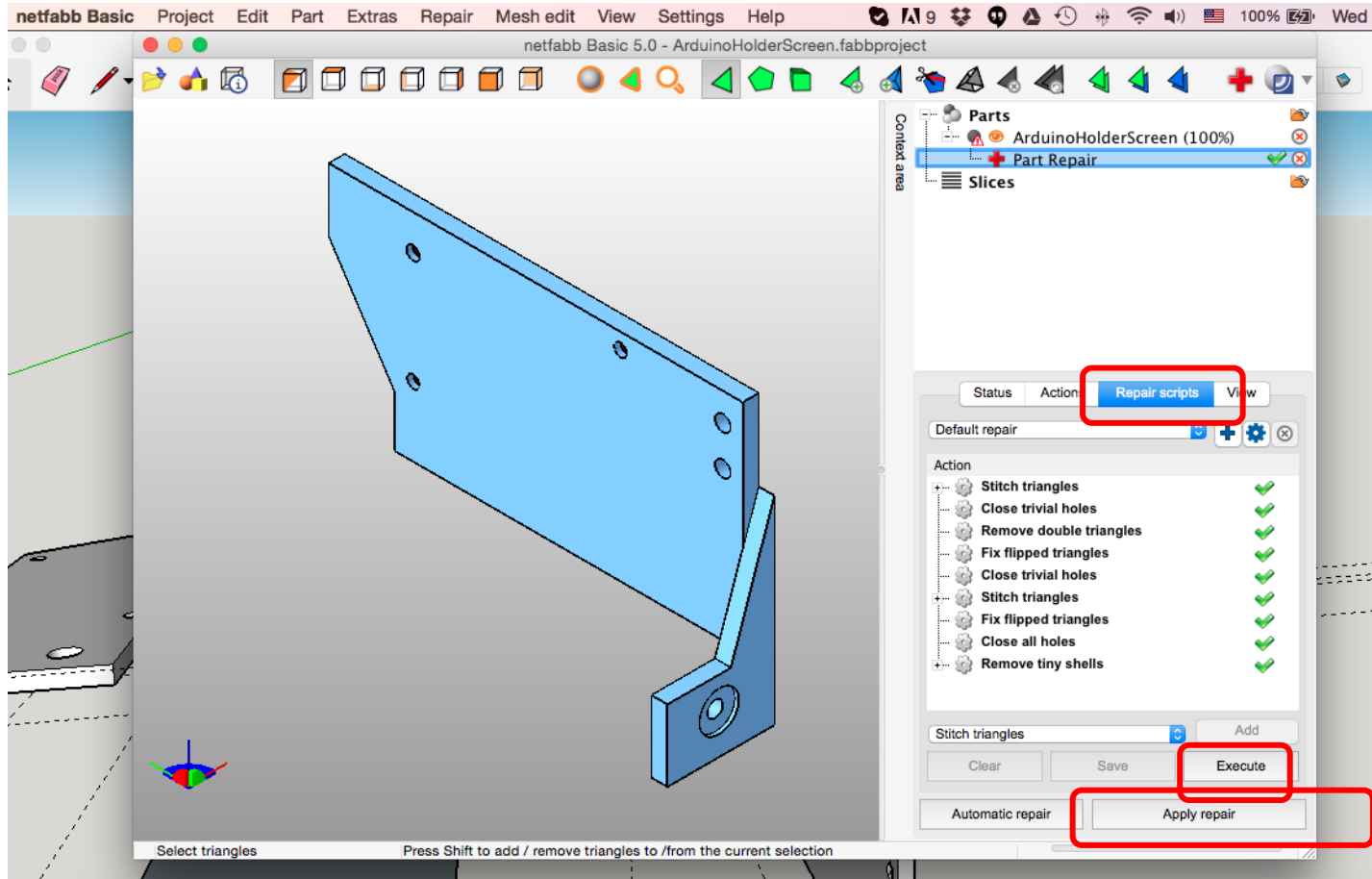


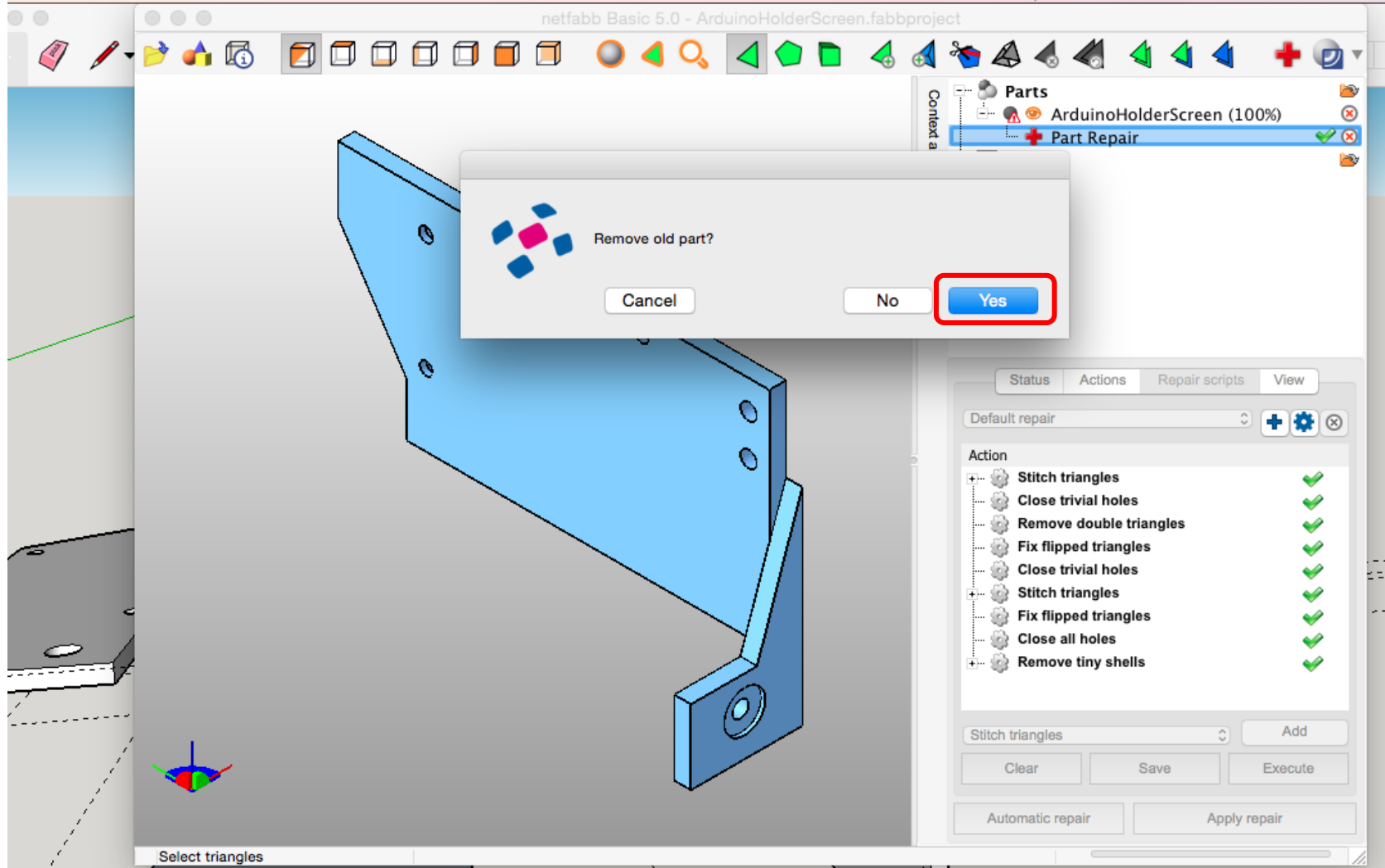


If your model needs reparation, you will see exclamation mark right next to the model. If you don't have it, then model is correct. For reparation press RED CROSS on your upper right corner.

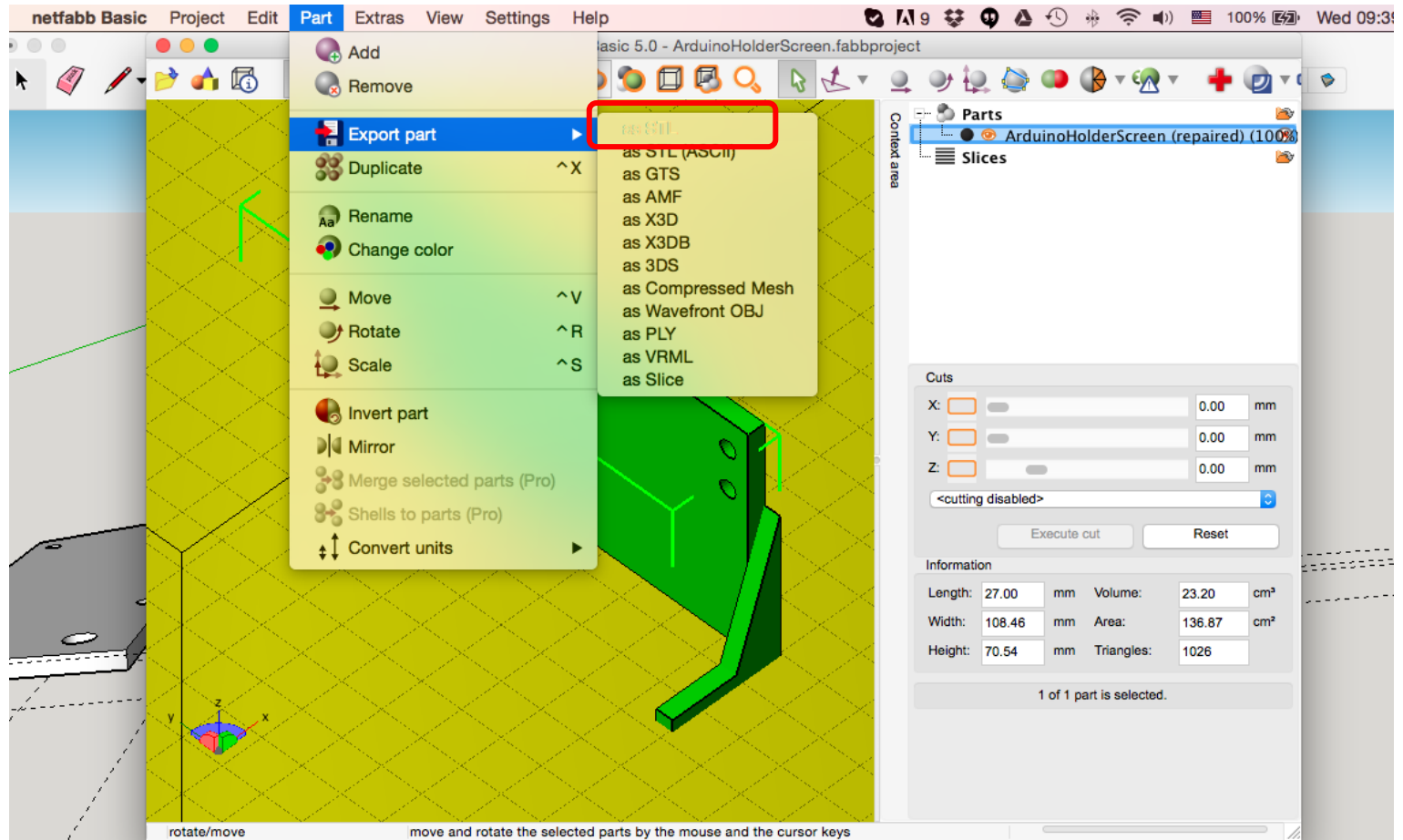


1. Repair script -> 2. Execute -> 3. Apply repair



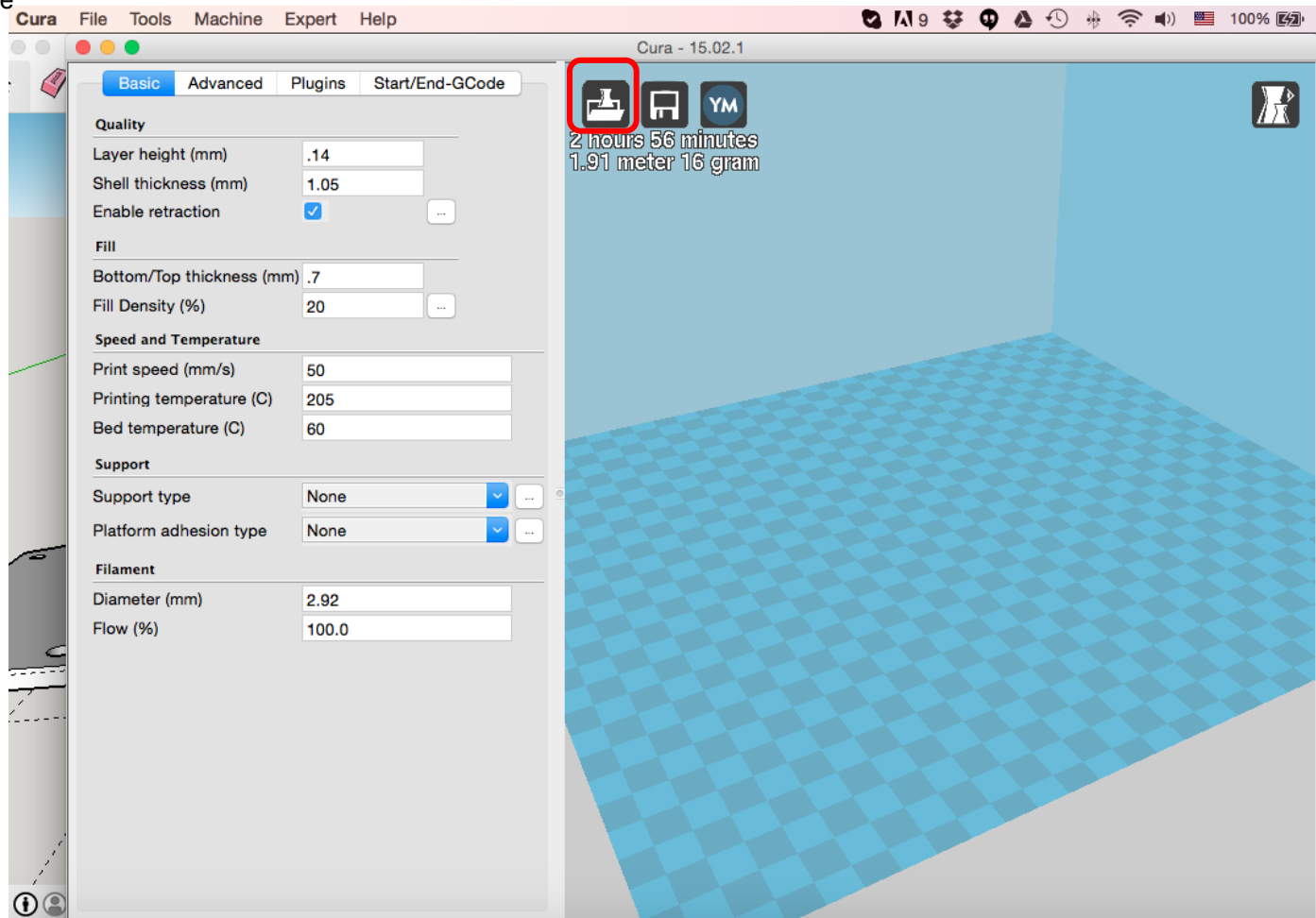


Save repaired STL file: Part->Export part-> STL  
Now you are ready for preparing GCODE for a 3D printer.



Slicer program.  
Cura

Load your STL model to slicer program. If you use Ultimaker, then use Cura program. Check that the parameters are right in the left hand side



In slicer program you can also rotate your model and find the optimal position for 3D printing. When you are ready save model as GCODE and you are ready to print.

