



SCANNING Workflow

July 2020



ReconstructMe - Non commercial license

ReconstructMe

Volume size

? The volume size specifies the space in which the reconstruction takes place.

Make volume size square

Size 819 mm

Volume position

? This section defines the position of the volume relative to the sensor.

Position always in front of sensor.

Offset 613 mm

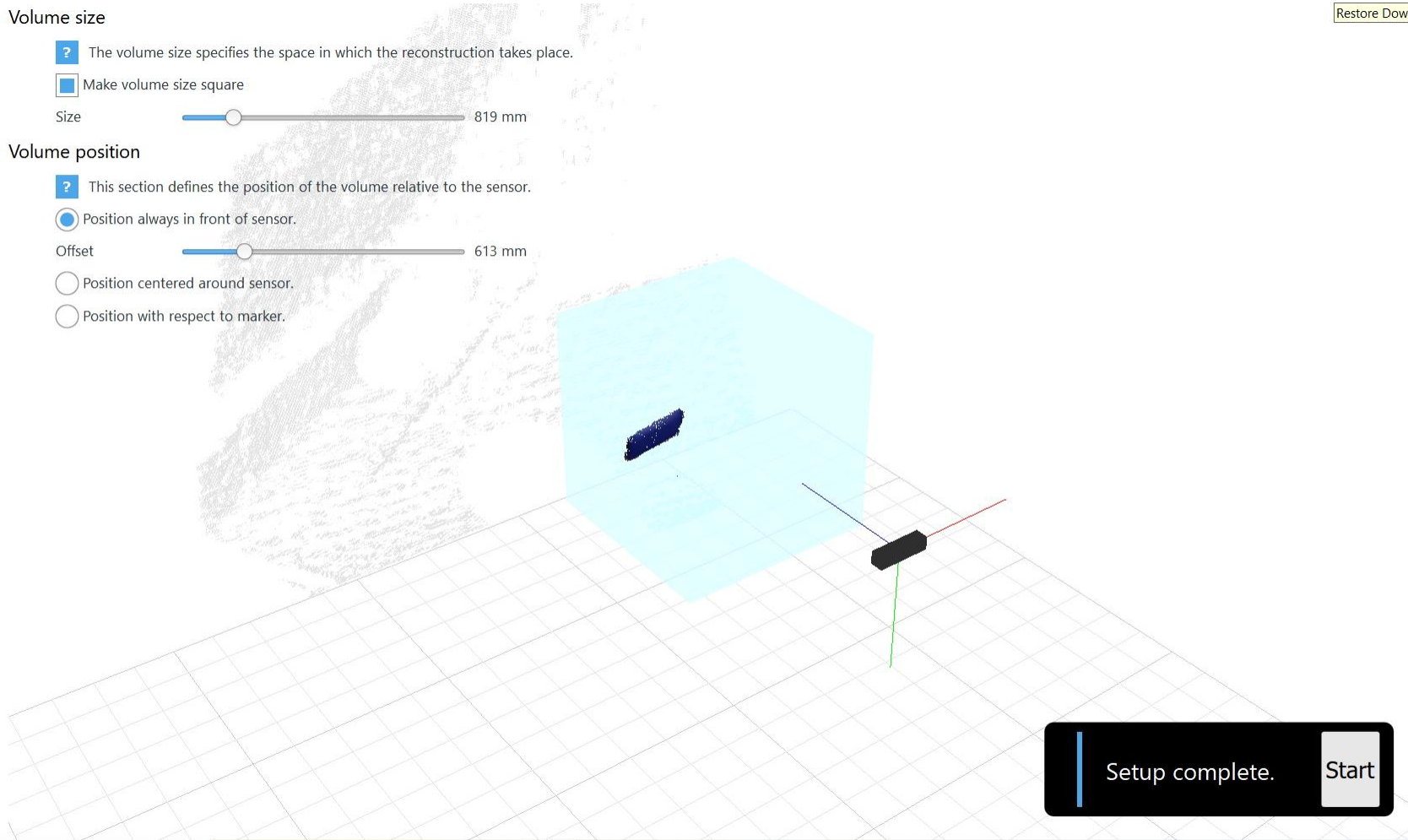
Position centered around sensor.

Position with respect to marker.

Volume
Handling
Surface
Device

News
License
History

About



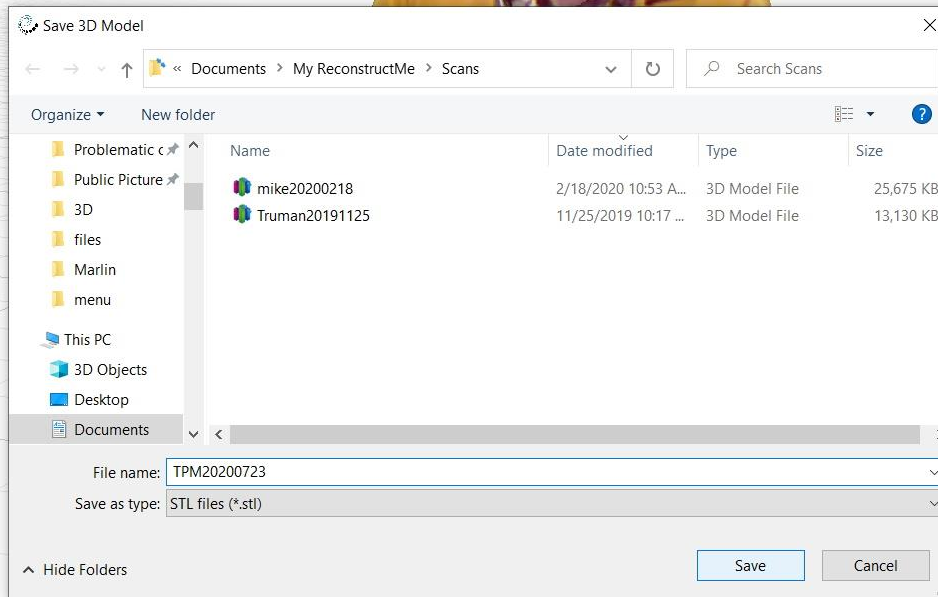


Scan and save .stl

ReconstructMe - Non commercial license

NOTE: Hold chin up slightly to get best profile

.stl File cannot capture color

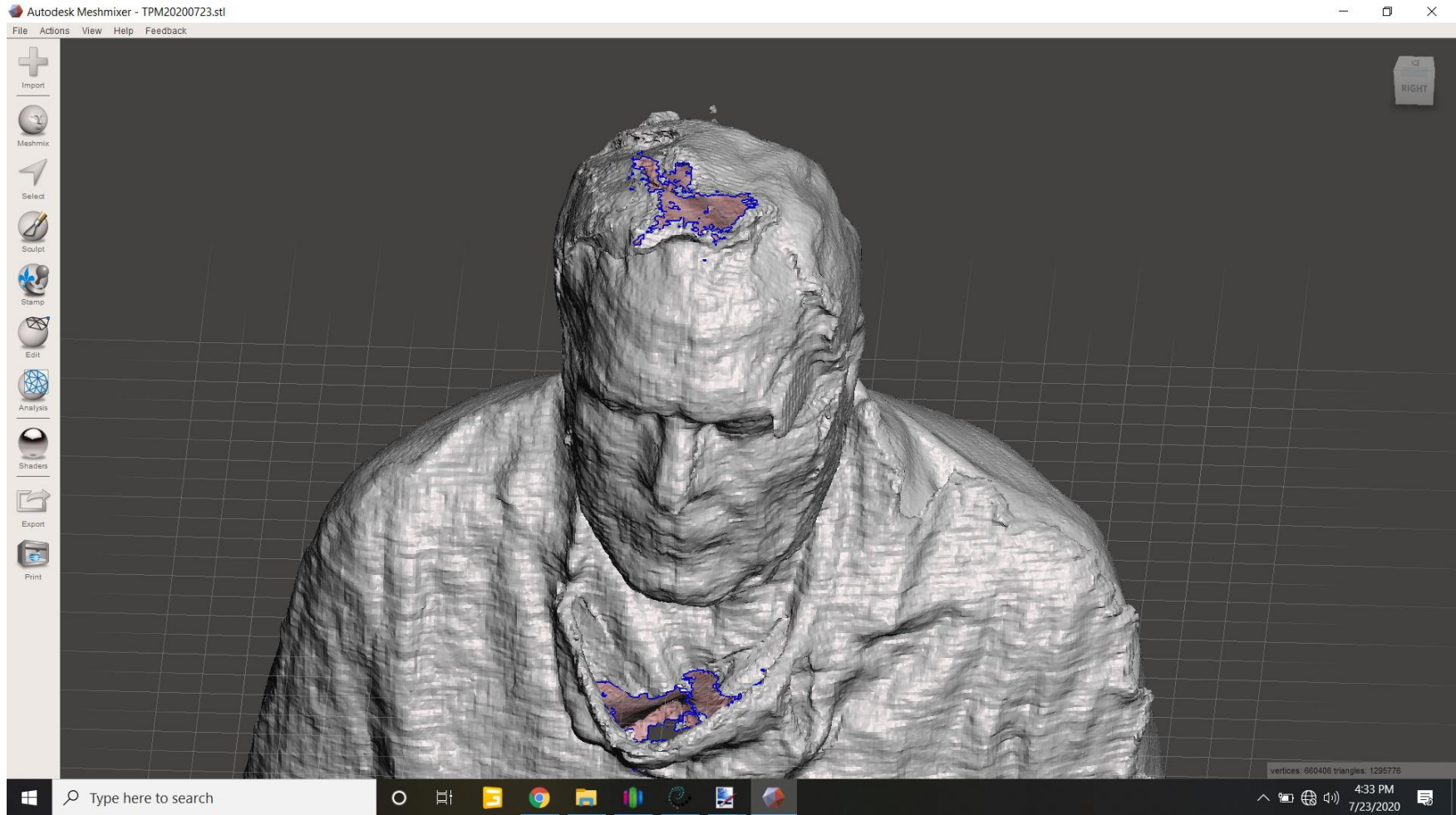


Surface updated. New Scan Save



Import .stl into Meshmixer

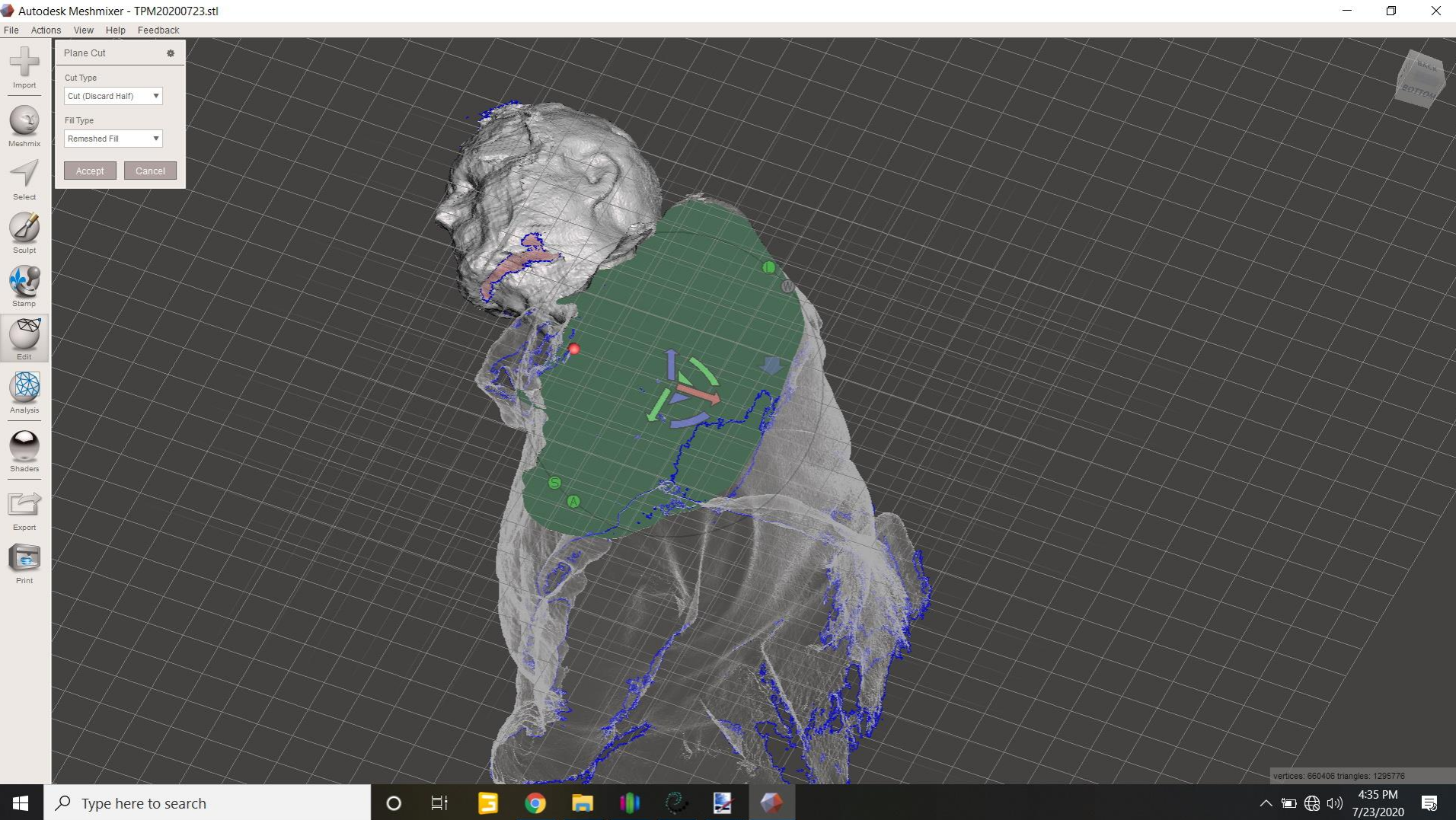
NOTE: holes in scan





Use Edit/Plane Cut to find clean surface

NOTE: Use Position and rotate handles to get a clean plane



Autodesk Meshmixer - TPM20200723.stl

File Actions View Help Feedback

Plane Cut

Cut Type
Cut (Discard Half)

Fill Type
Remeshed Fill

Accept Cancel

vertices: 660406 triangles: 1295776

4:35 PM
7/23/2020



Use Edit/Make Solid to fill in remaining holes

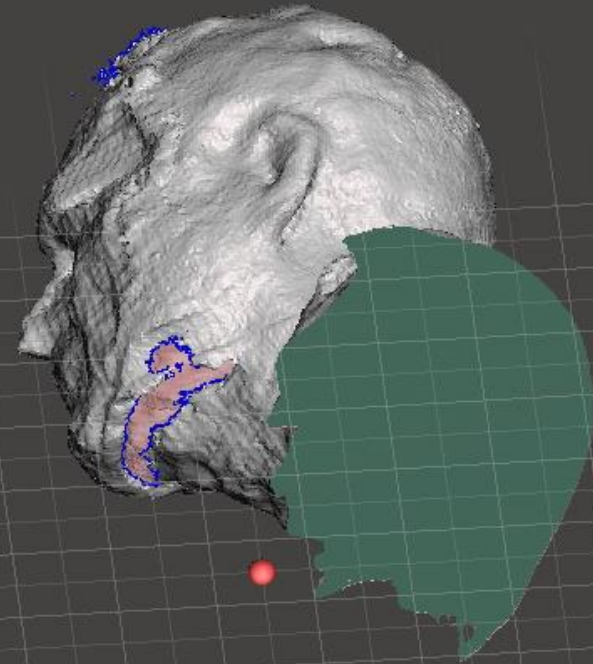
Autodesk Meshmixer - TPM20200723.stl

NOTE: Parallel surface across the bottom after plane cut

File Actions View Help Feedback

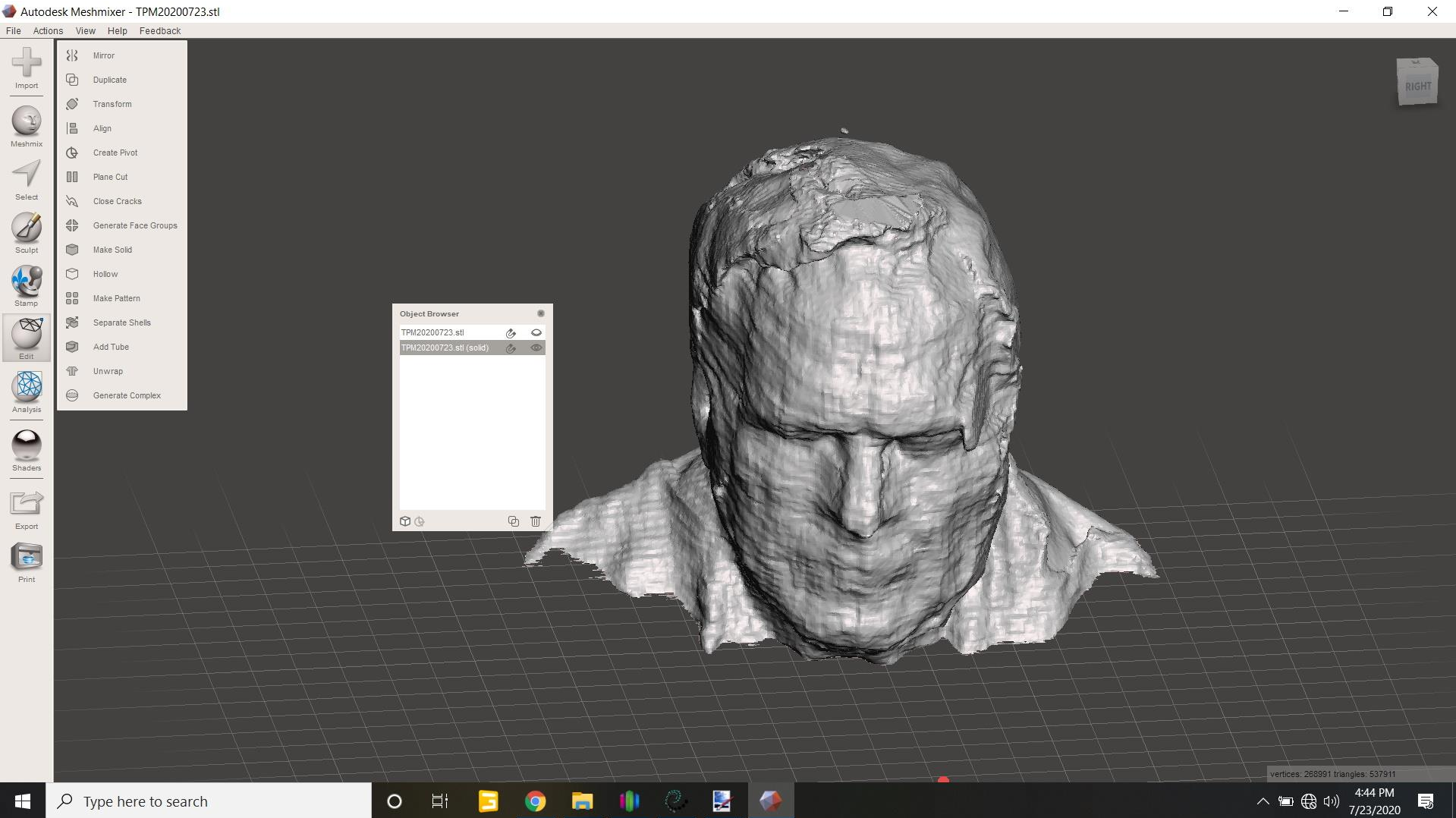
- Import
- Meshmix
- Select
- Sculpt
- Stamp
- Edit
- Analysis
- Shaders
- Export

- Mirror
- Duplicate
- Transform
- Align
- Create Pivot
- Plane Cut
- Close Cracks
- Generate Face Groups
- Make Solid**
- Hollow
- Make Pattern
- Separate Shells
- Add Tube
- Unwrap
- Generate Complex





NOTE: New solid made (Object Browser) and holes filled.



The screenshot displays the Autodesk Meshmixer interface. The main 3D viewport shows a detailed, textured 3D model of a human face, rendered in a light gray color. The model is positioned on a dark gray grid. On the left side, there is a vertical toolbar with various icons for file operations (Import, Meshmix, Select, Sculpt, Stamp, Edit), analysis, and export. An 'Object Browser' window is open in the center-left, showing a list of objects: 'TPM20200723.stl' and 'TPM20200723.stl (solid)'. The 'TPM20200723.stl (solid)' object is selected, indicating it is the current active object. The top of the window shows the title 'Autodesk Meshmixer - TPM20200723.stl' and standard window controls. The bottom of the image shows the Windows taskbar with the search bar and several application icons.



File/Export Solid (.stl)

NOTE: Make sure latest object is selected.

Autodesk Meshmixer - TPM20200723.stl


File Actions View Help Feedback

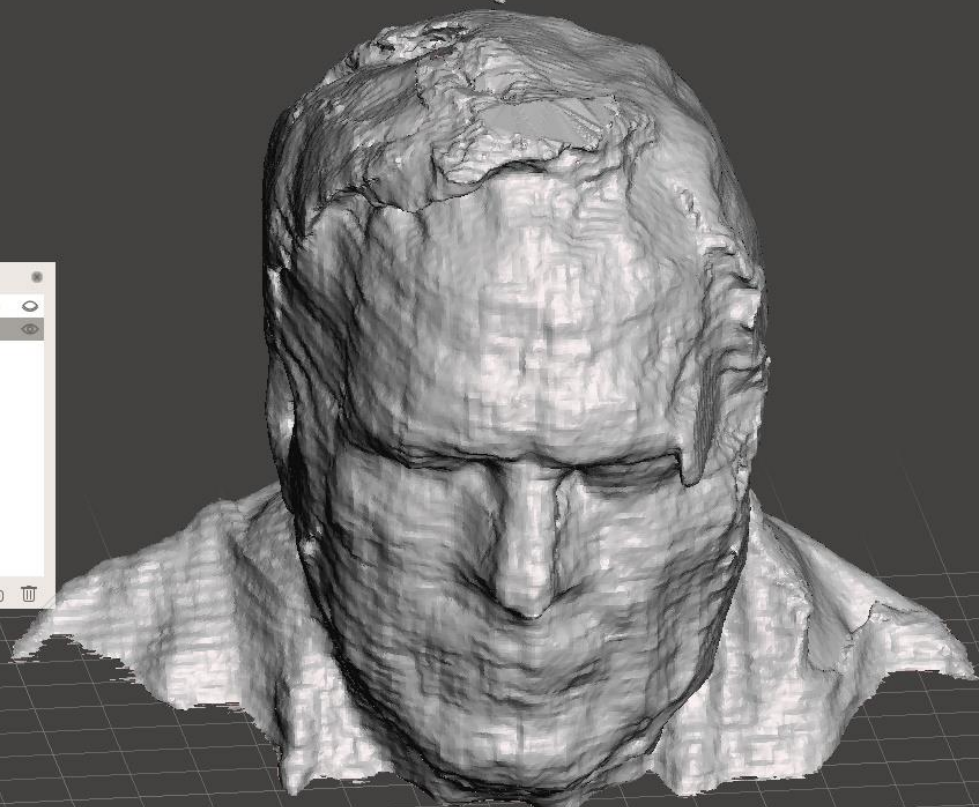
- Open Ctrl+O
- Save Ctrl+S
- Save As Ctrl+Shift+S
- Recent Files...
- Import
 - Import Bunny
 - Import Sphere
 - Import Plane
- Import Parts Folder
- Import Reference
- Export Ctrl+E**
- Export SVG
- Preferences Alt+T
- Start Screencast
- Exit

- Analysis
- Shaders
- Export
- Print

Object Browser

| | | |
|-------------------------|---|---|
| TPM20200723.stl |  |  |
| TPM20200723.stl (solid) |  |  |





Load and Scale .stl into slicer

Creality Ender-3
 Generic PLA
 0.4mm Nozzle

Standard Quality - 0.2mm 20% Off Off

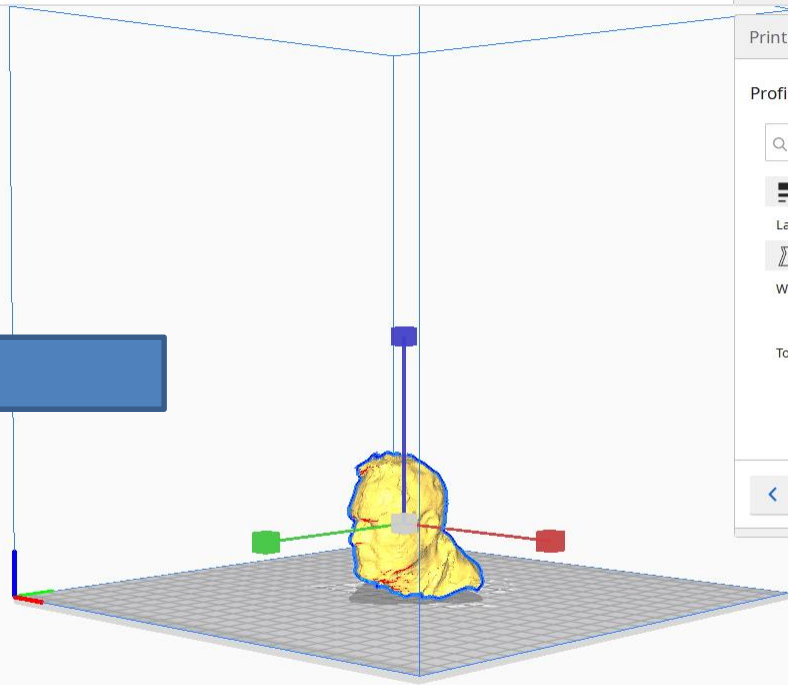
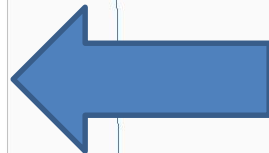
Scale (S) mm 20 %

Y 58.5451 mm 20 %

Z 61.5065 mm 20 %

Snap Scaling

Uniform Scaling



Print settings

Profile Standard Quality - 0.2mm

Search settings

Quality

Layer Height 0.2 mm

Shell

Wall Thickness 1.2 mm

Wall Line Count 3

Top/Bottom Thickness 0.8 mm

Top Thickness 0.8 mm

Top Layers 4

Bottom Thickness 0.8 mm

Recommended

Slice

Object list

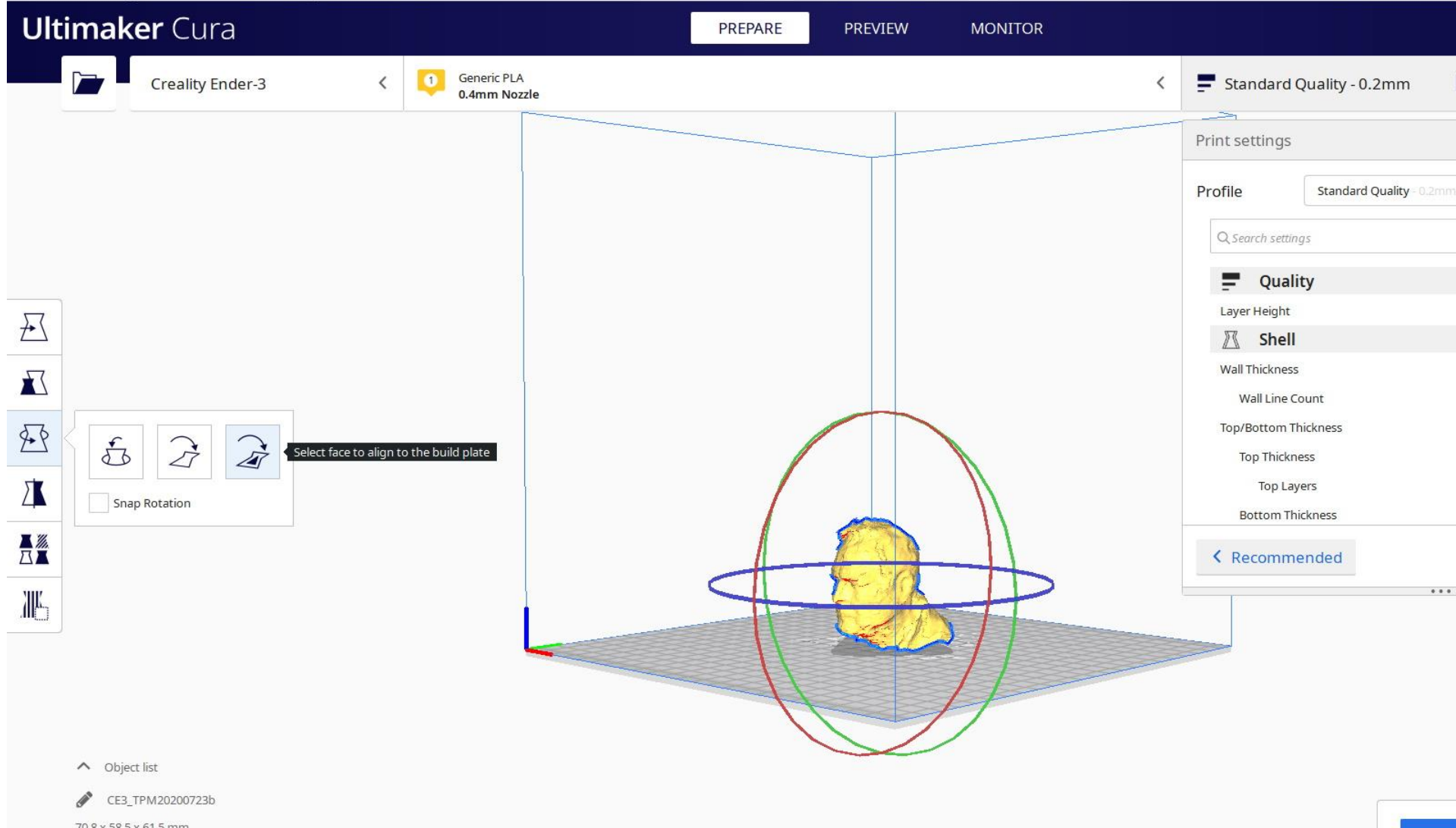
CE3_TPM20200723b

70.8 x 58.5 x 61.5 mm



Rotate plane to sit on bed

NOTE: Use 'face to align' in Rotate menu. If chin still sags rotate so no support needed.



Ultimaker Cura

PREPARE PREVIEW MONITOR

Creality Ender-3 Generic PLA 0.4mm Nozzle Standard Quality - 0.2mm

Print settings

Profile Standard Quality - 0.2mm

Search settings

Quality

Layer Height

Shell

Wall Thickness

Wall Line Count

Top/Bottom Thickness

Top Thickness

Top Layers

Bottom Thickness

Recommended

Object list

CE3_TPM20200723b

70.8 x 58.5 x 61.5 mm

Select face to align to the build plate



Center & Slice!

NOTE: Set object coordinates to "0".

CE3_TPM20200723b - Ultimaker Cura
File Edit View Settings Extensions Preferences Help

Ultimaker Cura

PREPARE

PREVIEW

MONITOR

Marketplace

Sign in

Creativity Ender-3 < Generic PLA 0.4mm Nozzle <

Standard Quality - 0.2mm 20% Off Off

Print settings

Profile: Standard Quality - 0.2mm

Search settings

| | |
|----------------------|--------|
| Quality | |
| Layer Height | 0.2 mm |
| Shell | |
| Wall Thickness | 1.2 mm |
| Wall Line Count | 3 |
| Top/Bottom Thickness | 0.8 mm |
| Top Thickness | 0.8 mm |
| Top Layers | 4 |
| Bottom Thickness | 0.8 mm |

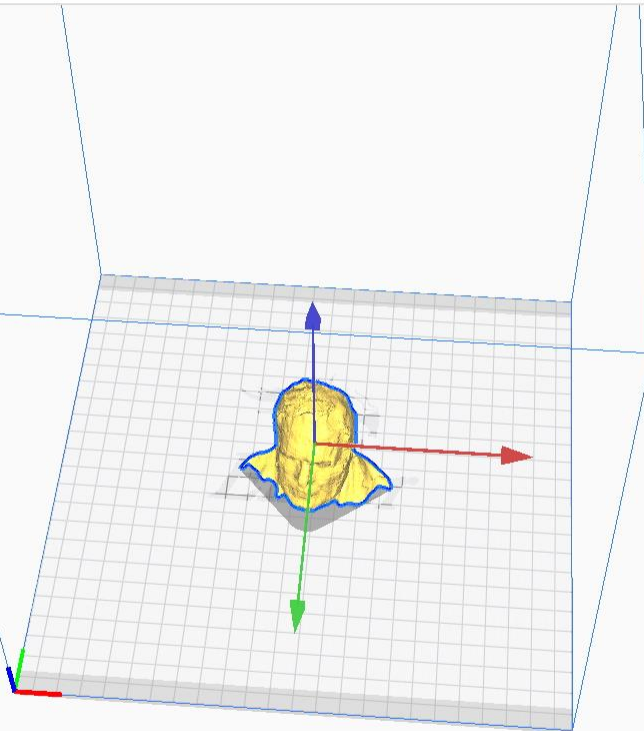
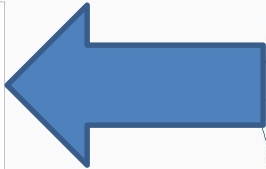
< Recommended

X 0 mm

Y 0 mm

Z 0 mm

Lock Model



Object list

CE3_TPM20200723b

70.8 x 55.7 x 59.1 mm

Slice