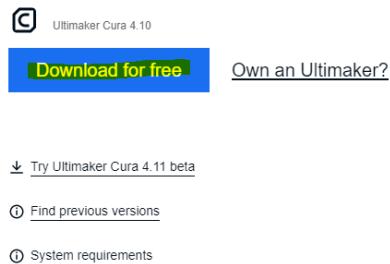


1. Download Cura:

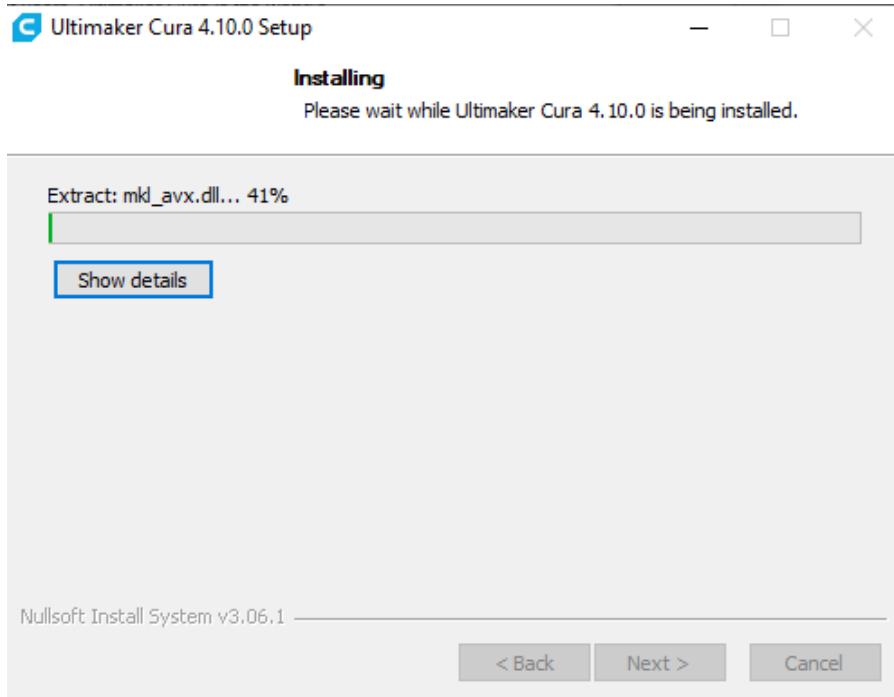
- <https://ultimaker.com/software/ultimaker-cura>

Ultimaker Cura

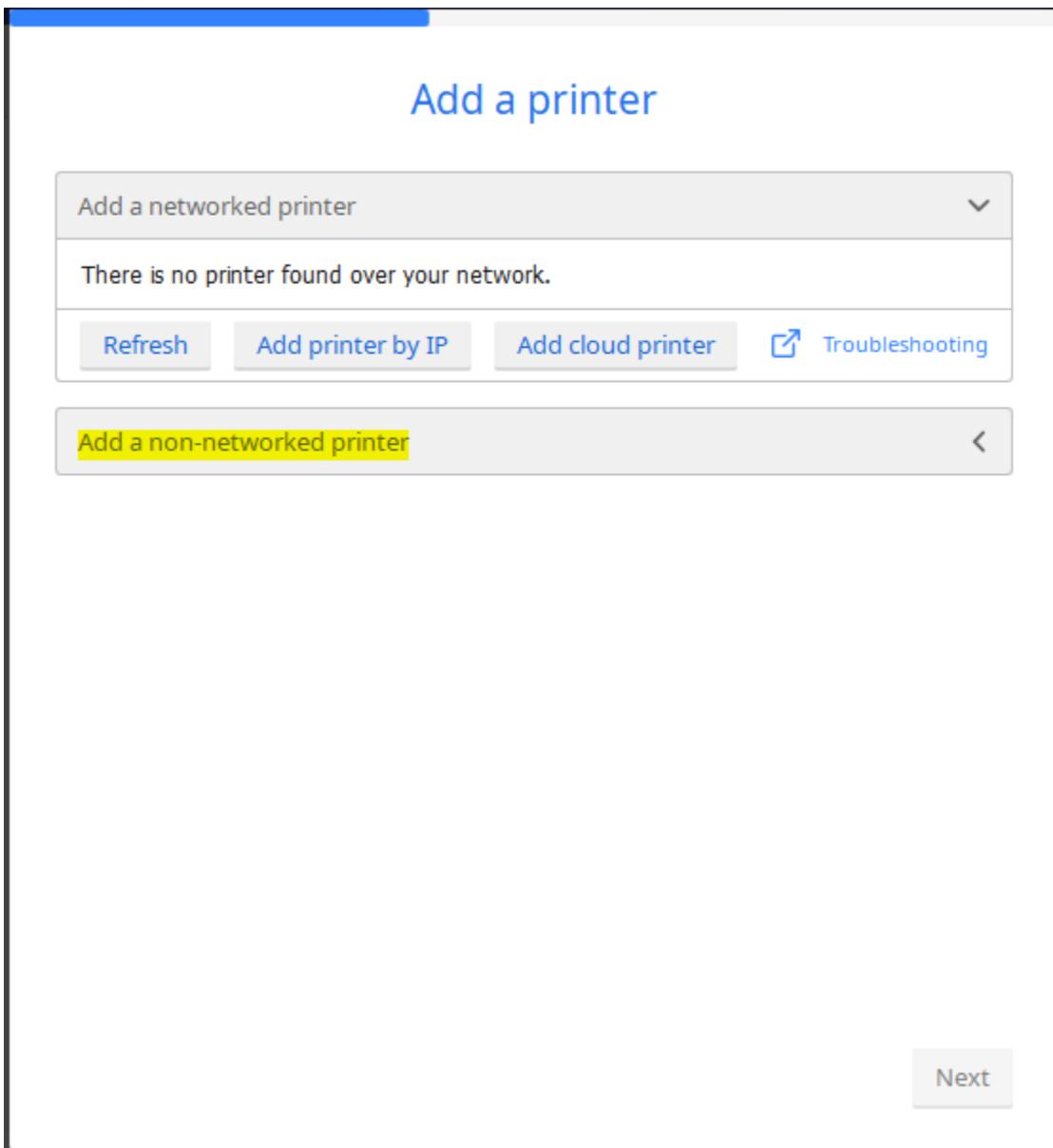
Trusted by millions of users, Ultimaker Cura is the world's most popular 3D printing software. Prepare prints with a few clicks, integrate with CAD software for an easier workflow, or dive into custom settings for in-depth control.



2. Install Cura



3. Add Ultimaker 3 Printer:



Add a printer

Add a networked printer

Add a non-networked printer

▼ Ultimaker B.V.

- Ultimaker S5
- Ultimaker S3
- Ultimaker 3
- Ultimaker 3 Extended
- Ultimaker 2+
- Ultimaker 2+ Connect
- Ultimaker 2 Extended+
- Ultimaker 2
- Ultimaker 2 Extended
- Ultimaker 2 Extended with Olsson
- Ultimaker 2 Go
- Ultimaker 2 with Olsson Block
- Ultimaker Original
- Ultimaker Original Dual Extrusion
- Ultimaker Original+

› Custom

› 101Hero

Ultimaker 3

Manufacturer Ultimaker B.V.

Profile author Ultimaker

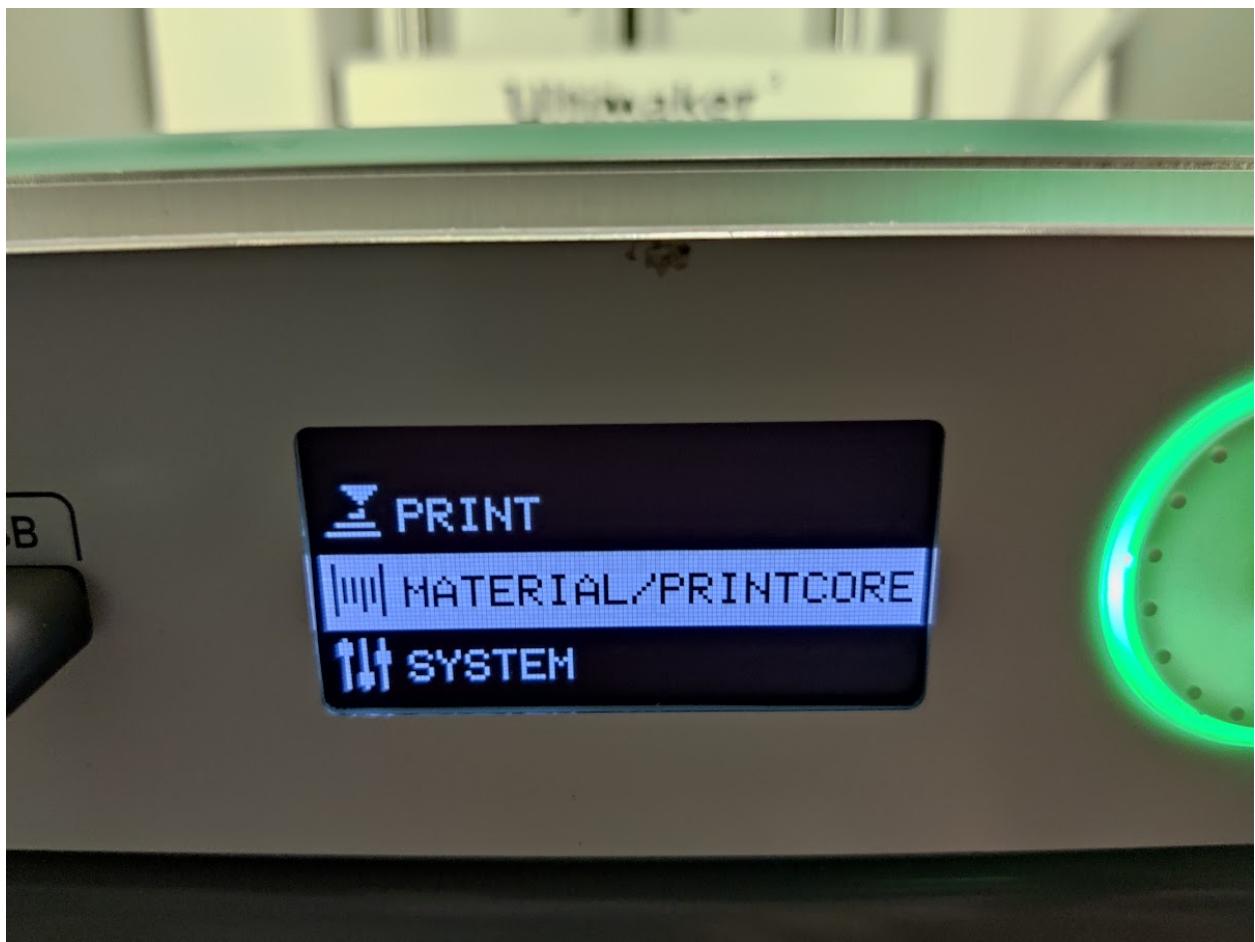
Printer name

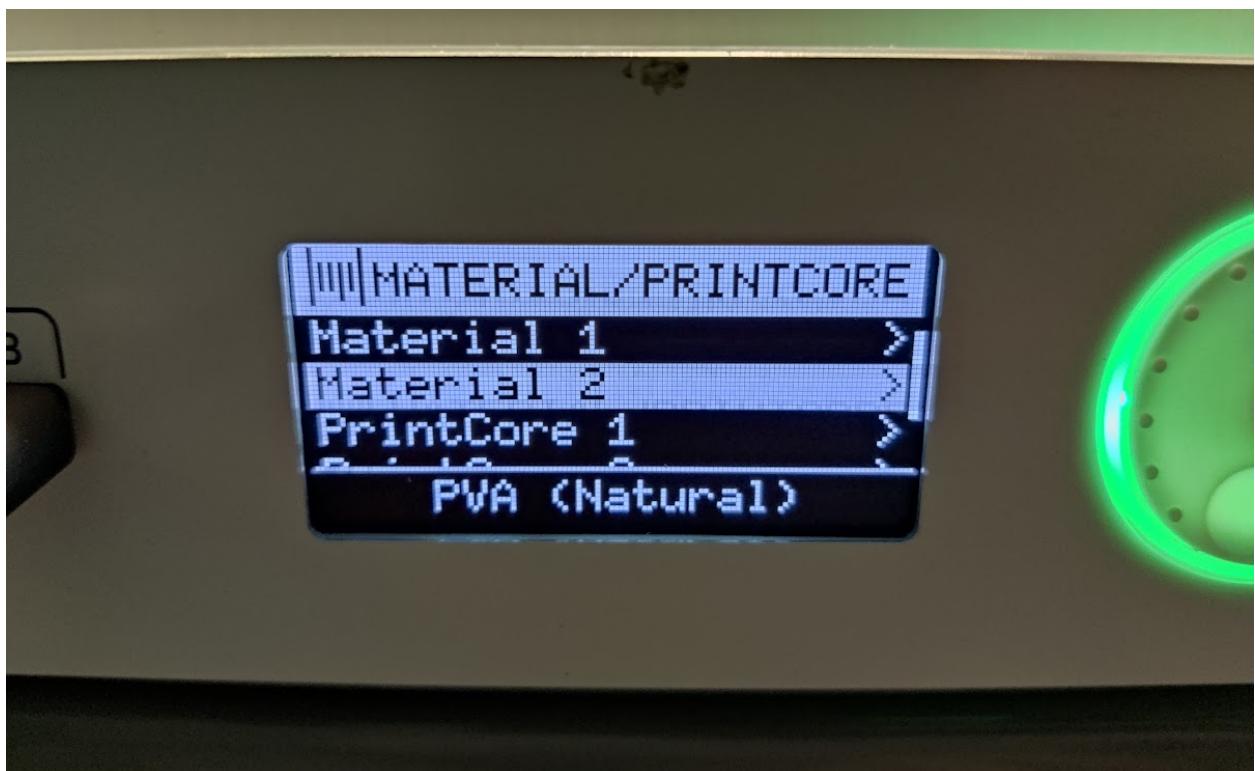
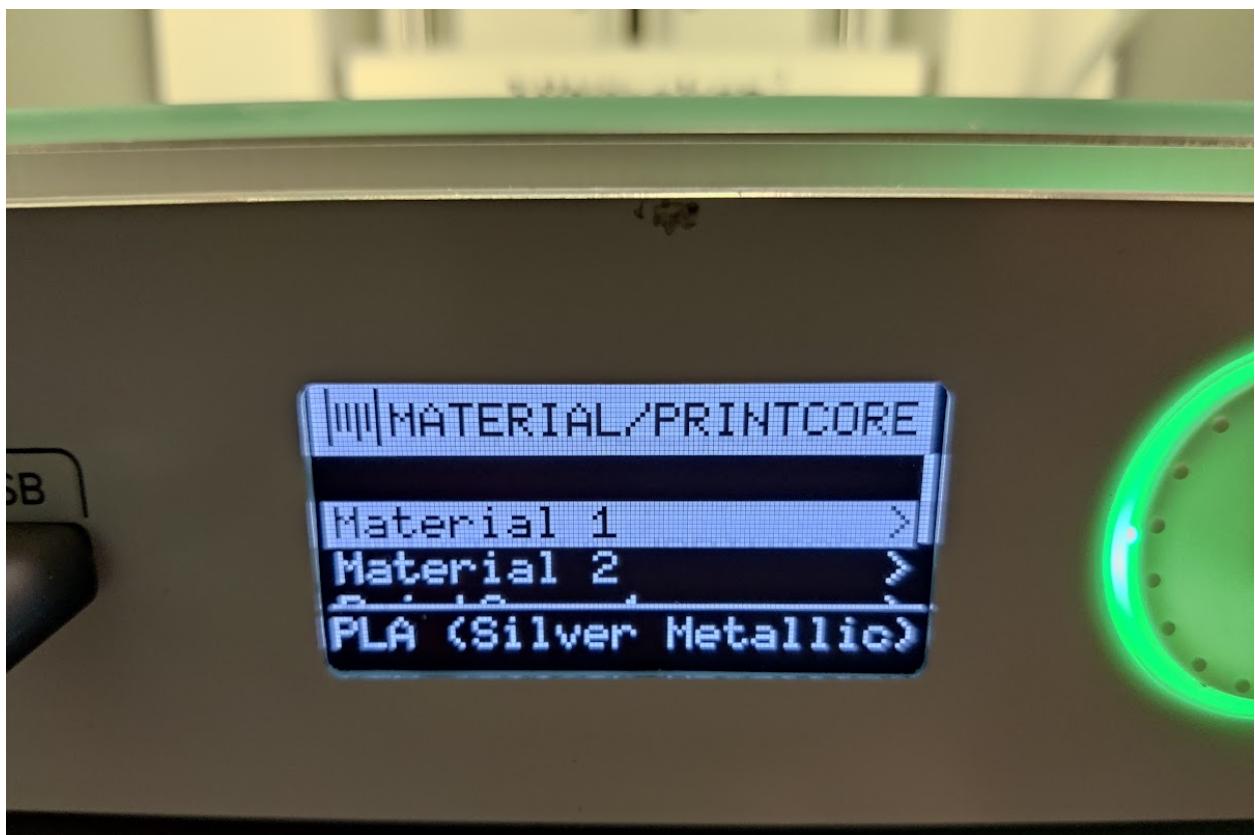
Next

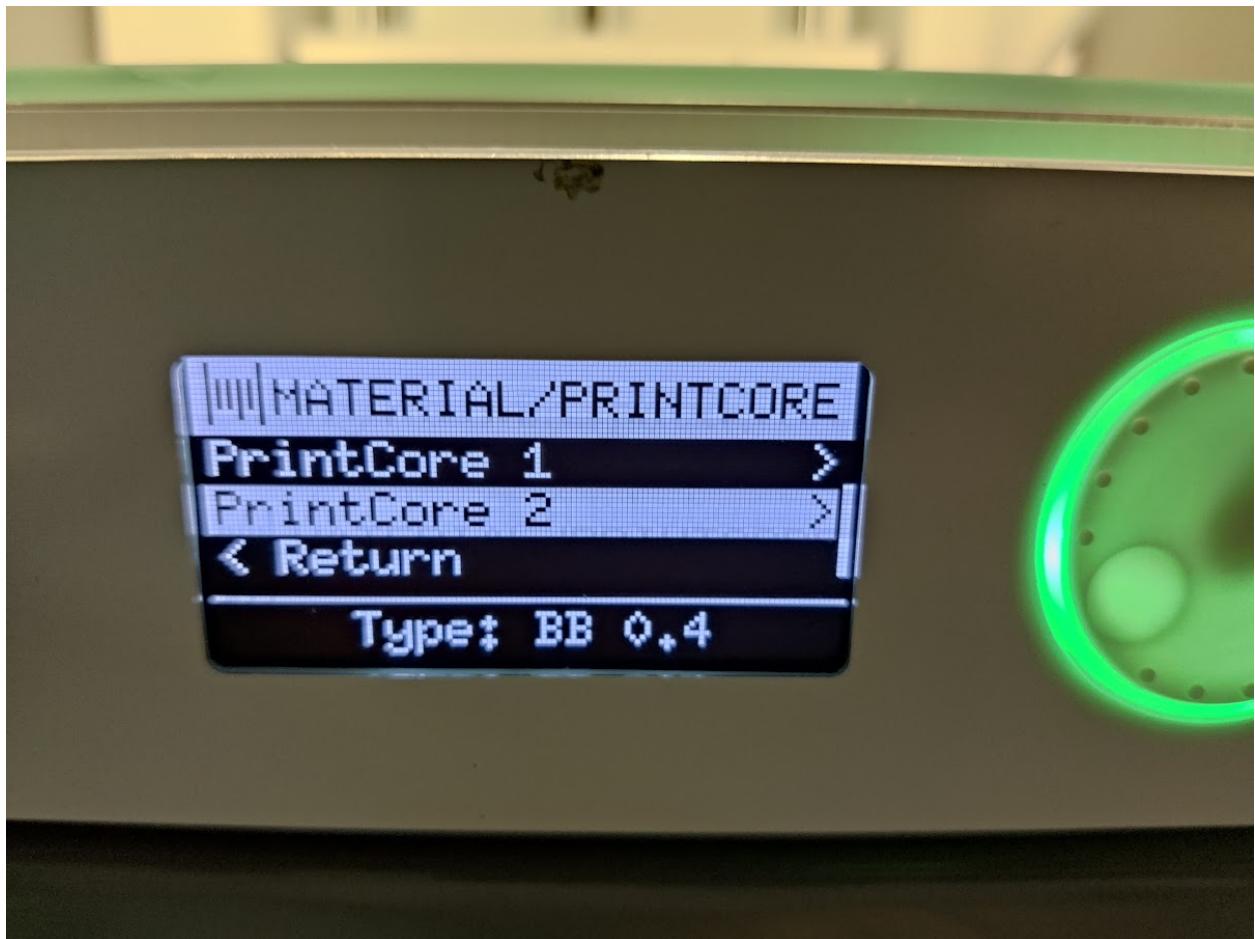
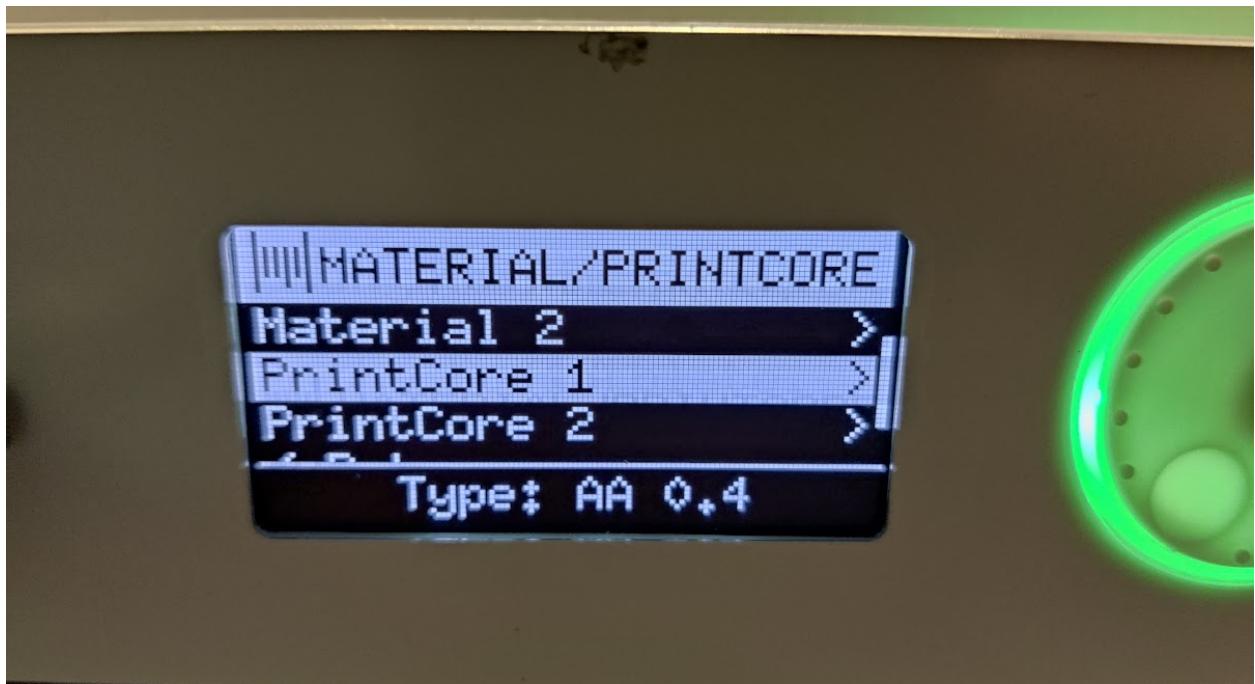
4. Setup Printer 1 Properties:

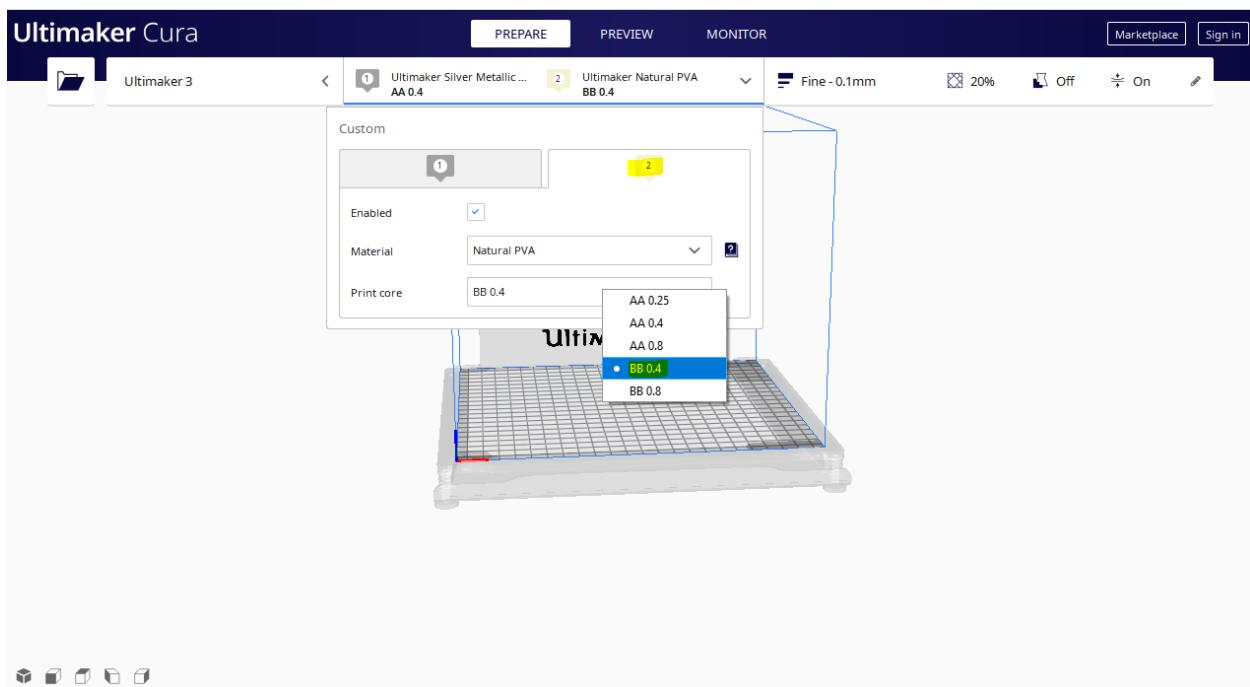
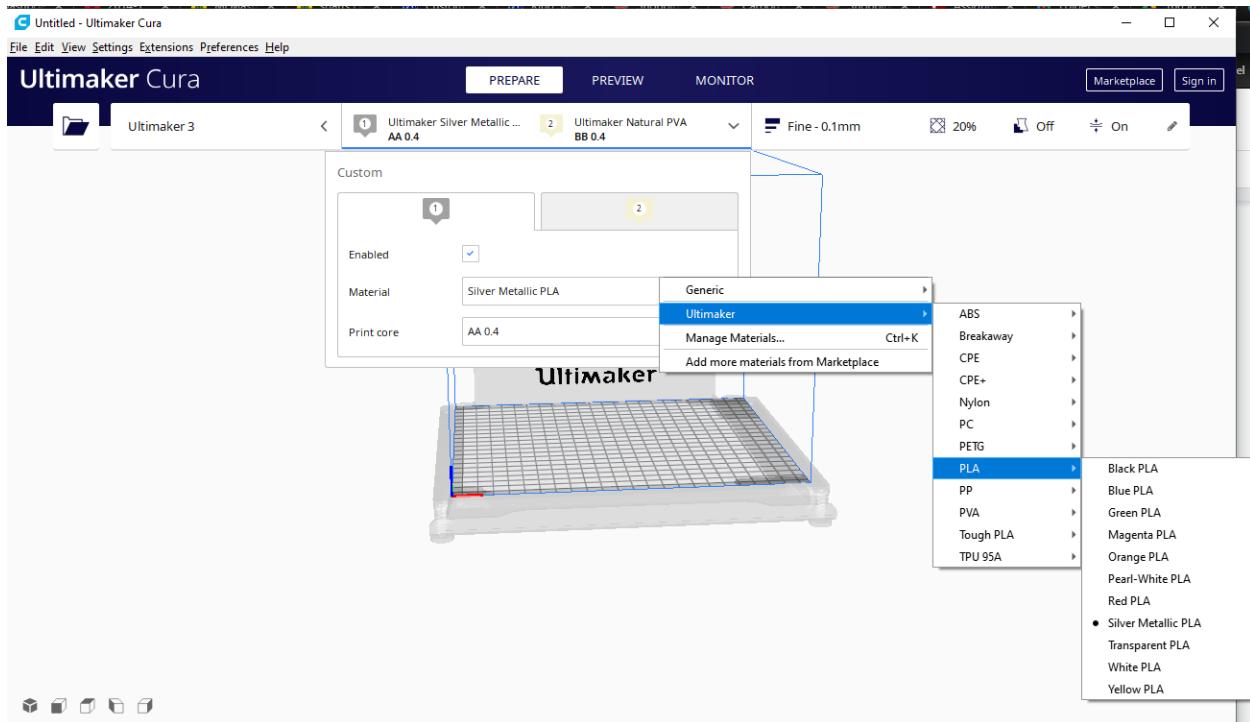
- There are currently two printers in the MRSD lab. One uses PLA plastic + PVA support material and the other uses ABS plastic + PVA support material. This may change depending on what is currently loaded in the 3D printer, so double check before confirming the properties shown below:

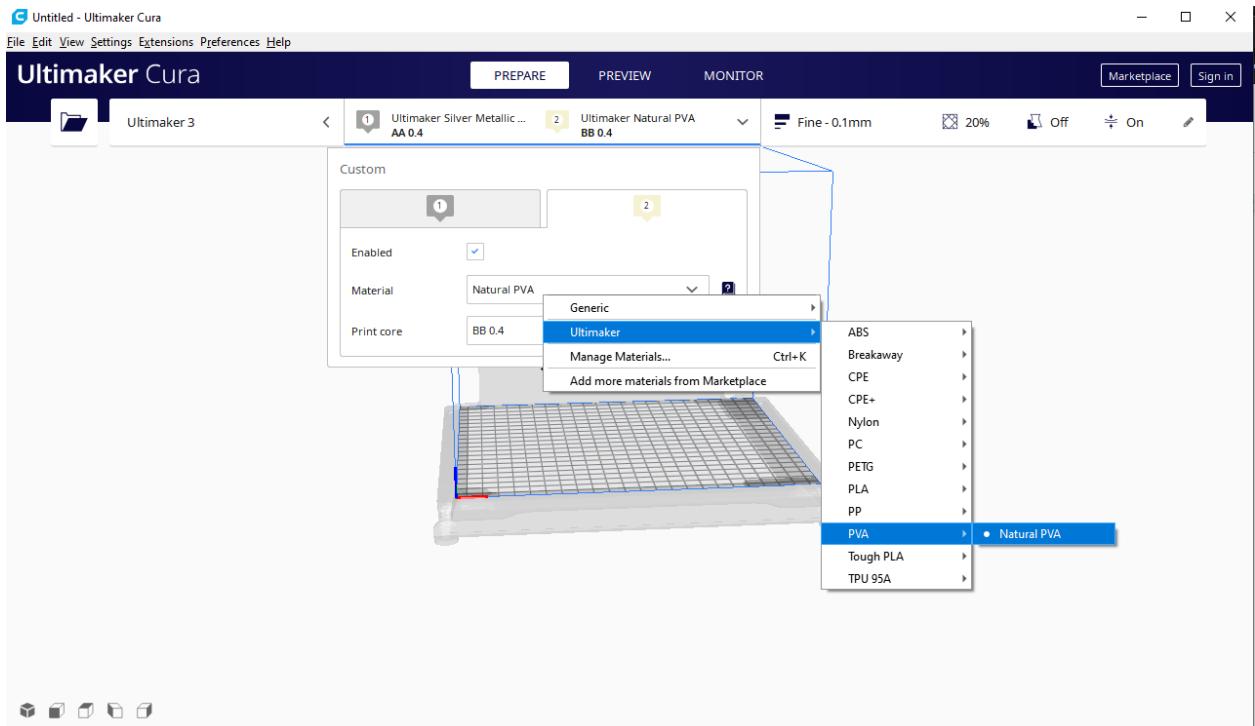












5. Add Printer 2:

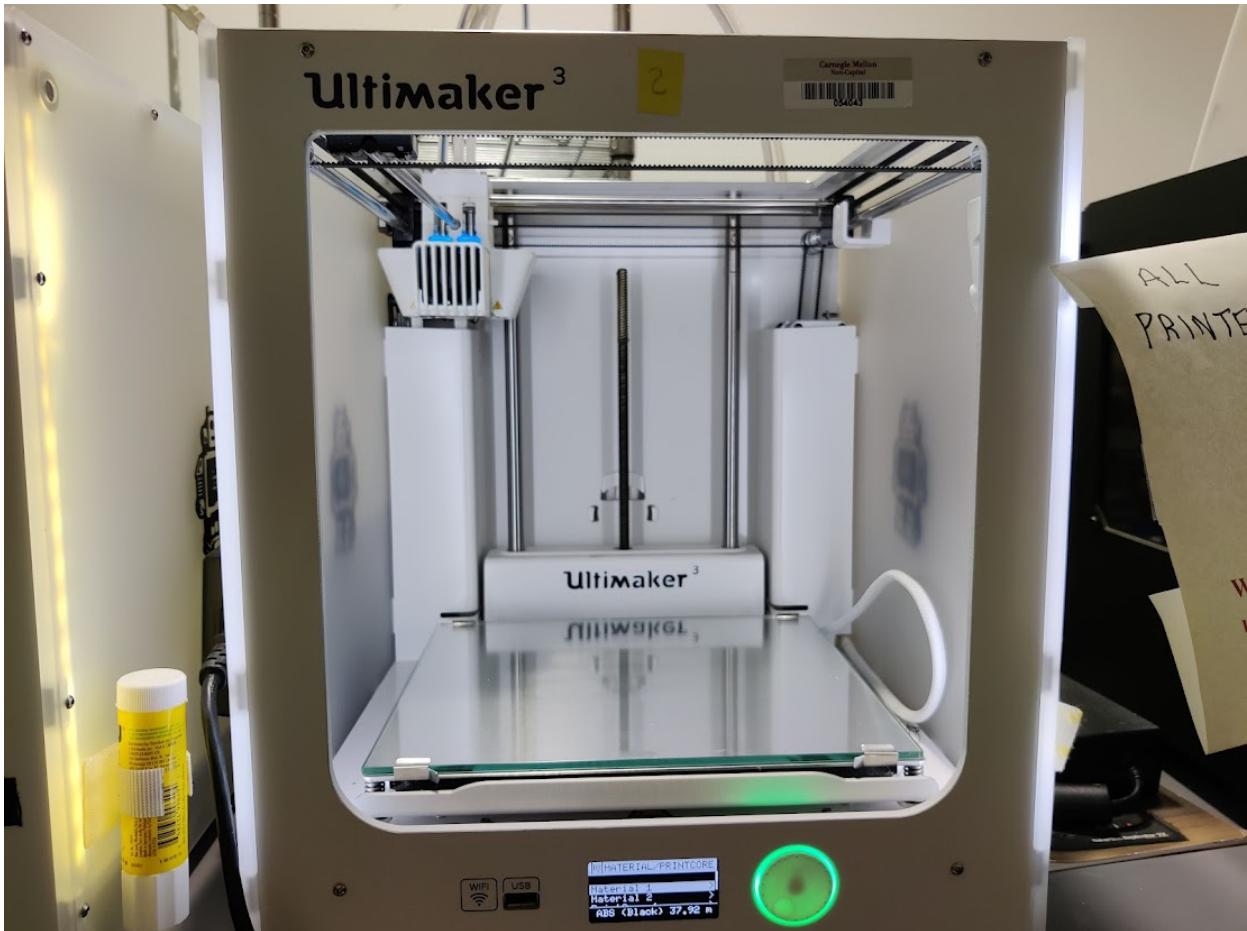
The image shows the Ultimaker Cura software interface. At the top, there are tabs for PREPARE, PREVIEW, and MONITOR. Below the tabs, the printer selection dropdown shows "Ultimaker 3". To the right of the dropdown are two material profiles: "Ultimaker Silver Metallic AA 0.4" and "Ultimaker Natural PVA BB 0.4". On the far right, a print settings panel shows "Fine - 0.1mm".

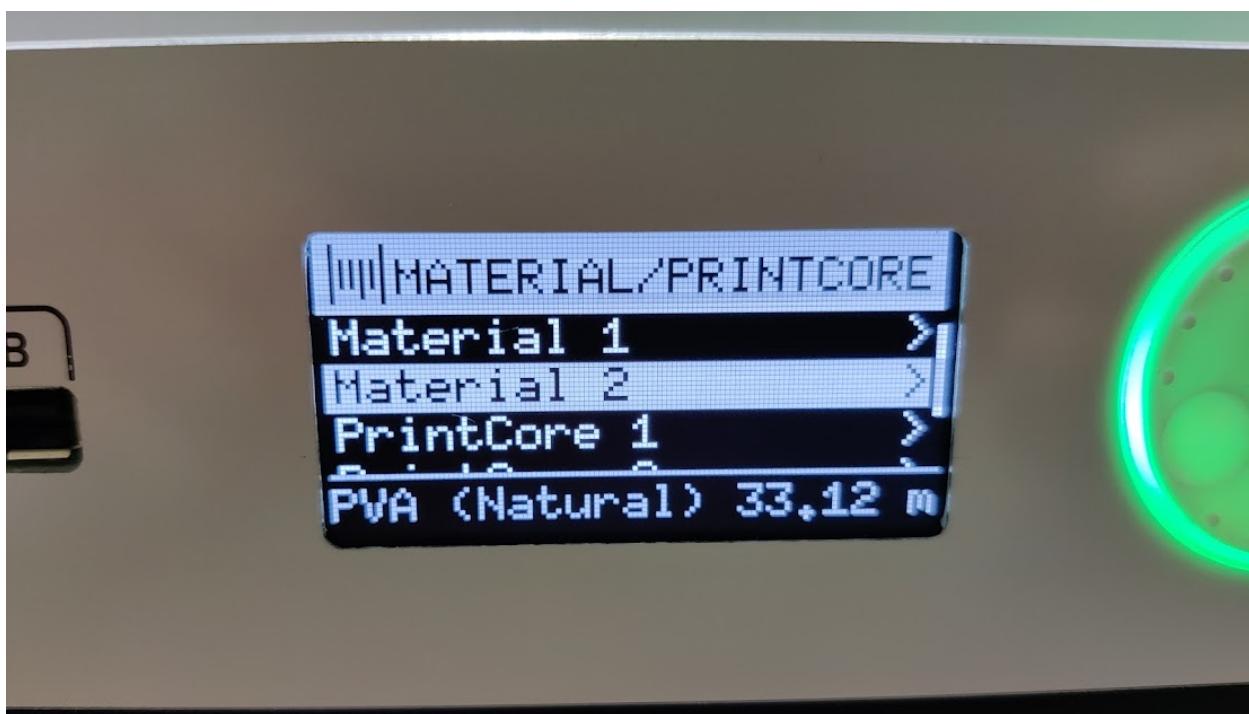
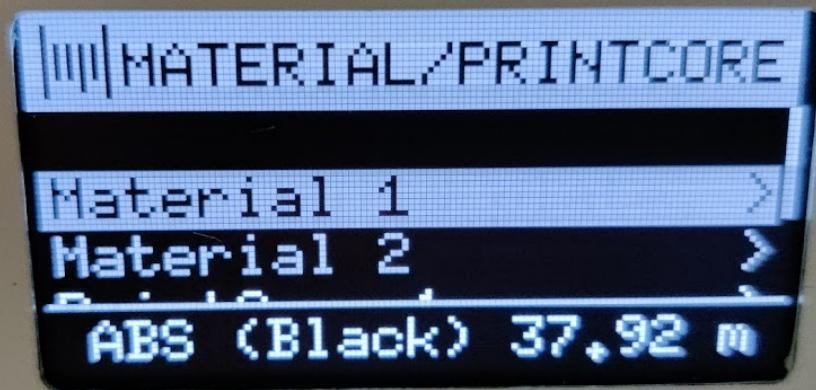
In the center-left, there's a "Preset printers" section with a dropdown menu containing "Ultimaker 3". Below this are buttons for "Add printer" (highlighted in yellow) and "Manage printers".

The main workspace on the right displays a 3D model of an Ultimaker 3 printer's build plate, which has a grid pattern and the text "Ultimaker 3" on it.

At the bottom, a modal dialog box titled "Add a printer" is open. It has two sections: "Add a networked printer" (disabled) and "Add a non-networked printer". Under "Add a non-networked printer", a dropdown menu is expanded, showing a list of Ultimaker models. The "Ultimaker 3" option is selected, highlighted with a blue circle. To the right of the dropdown, the selected printer details are shown: Manufacturer: Ultimaker B.V., Profile author: Ultimaker, and Printer name: Ultimaker 3. At the bottom of the dialog are "Cancel" and "Add" buttons.

6. Setup Printer 2 Properties:





[MATERIAL/PRINTCORE]

Material 2 >

PrintCore 1 >

PrintCore 2 >

< Return

Type: AA 0.4

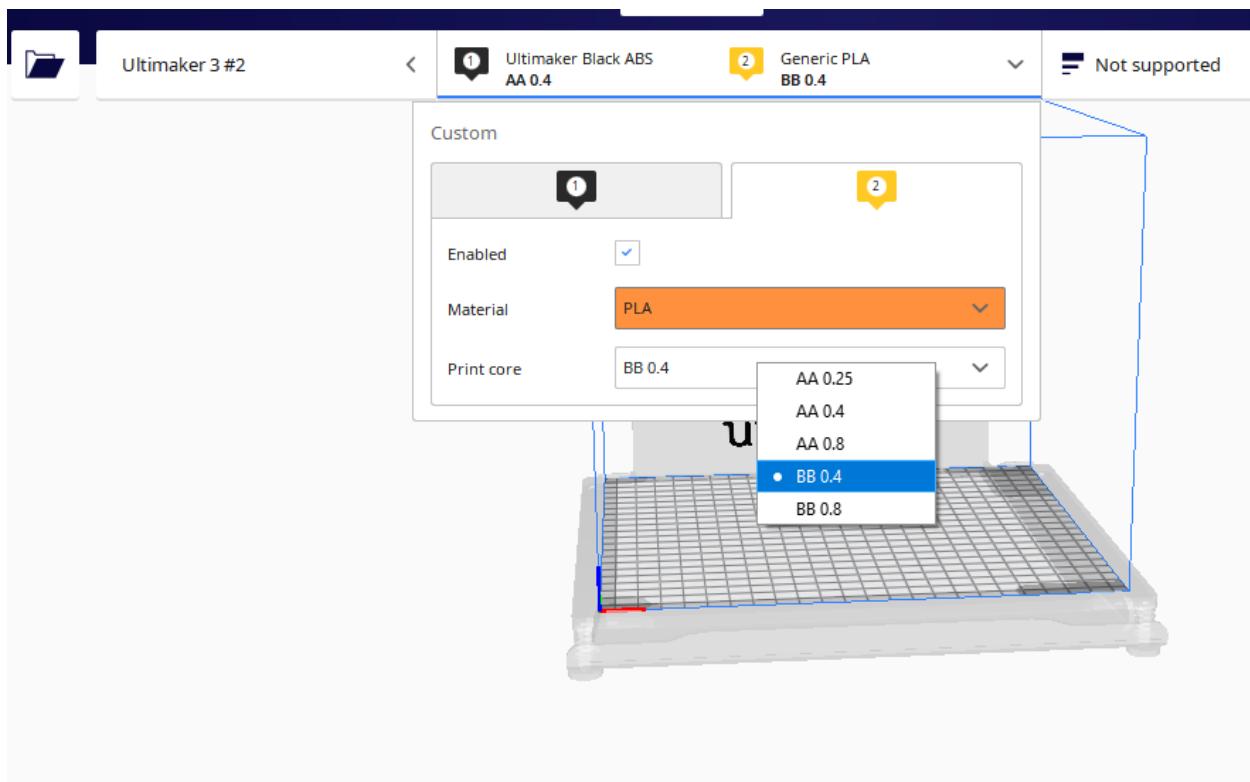
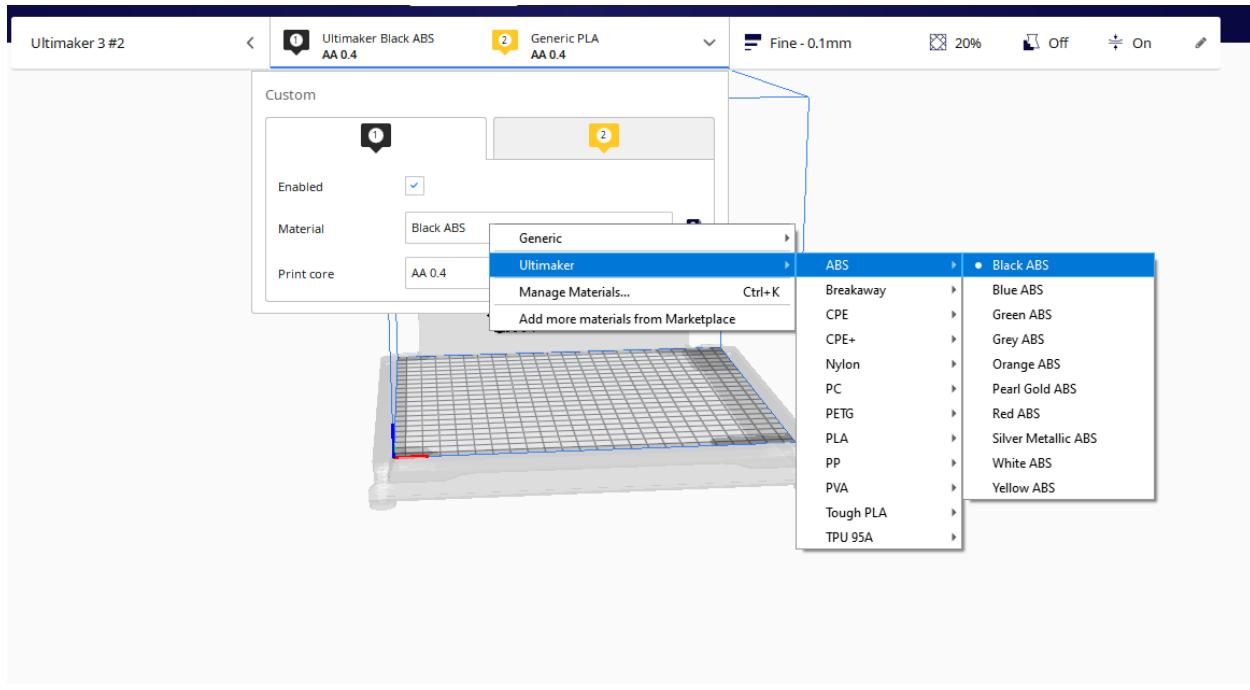
[MATERIAL/PRINTCORE]

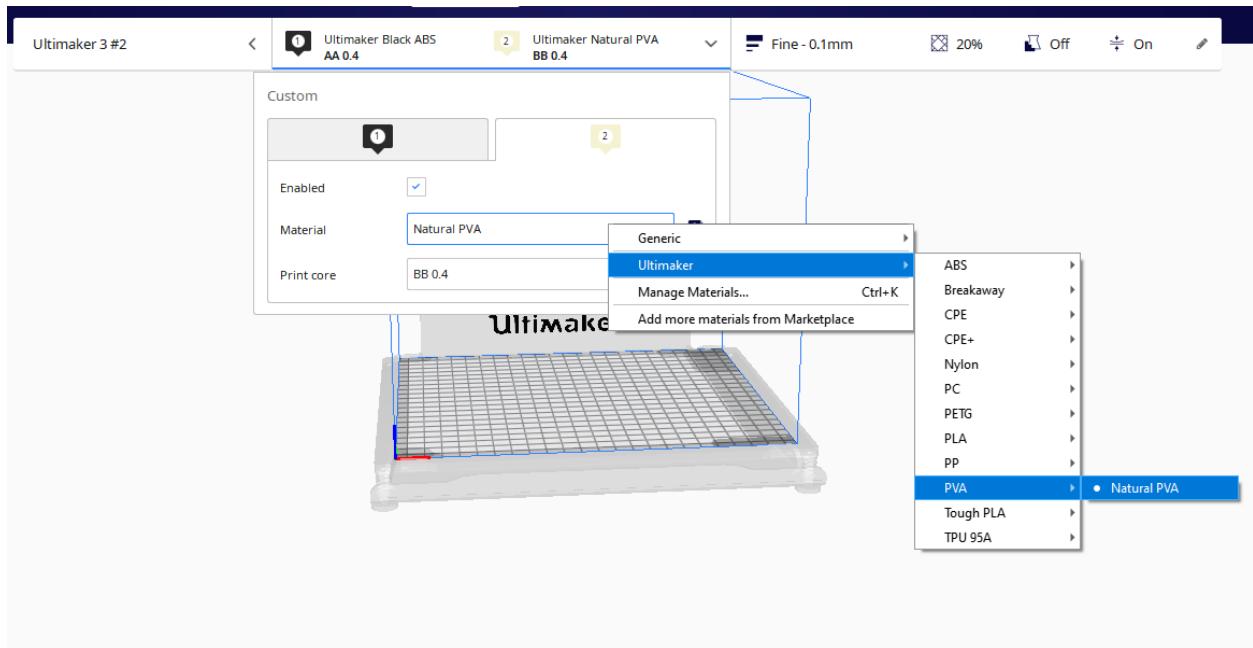
PrintCore 1 >

PrintCore 2 >

< Return

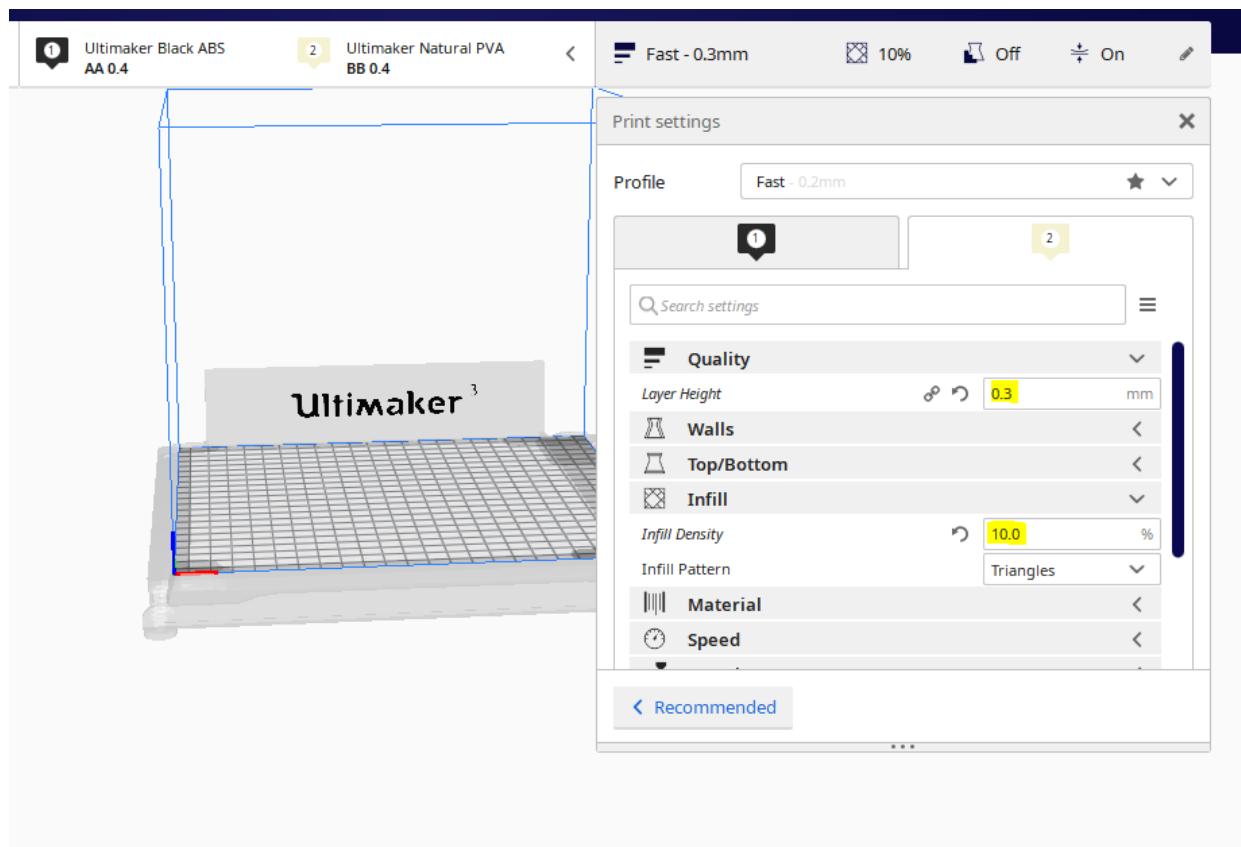
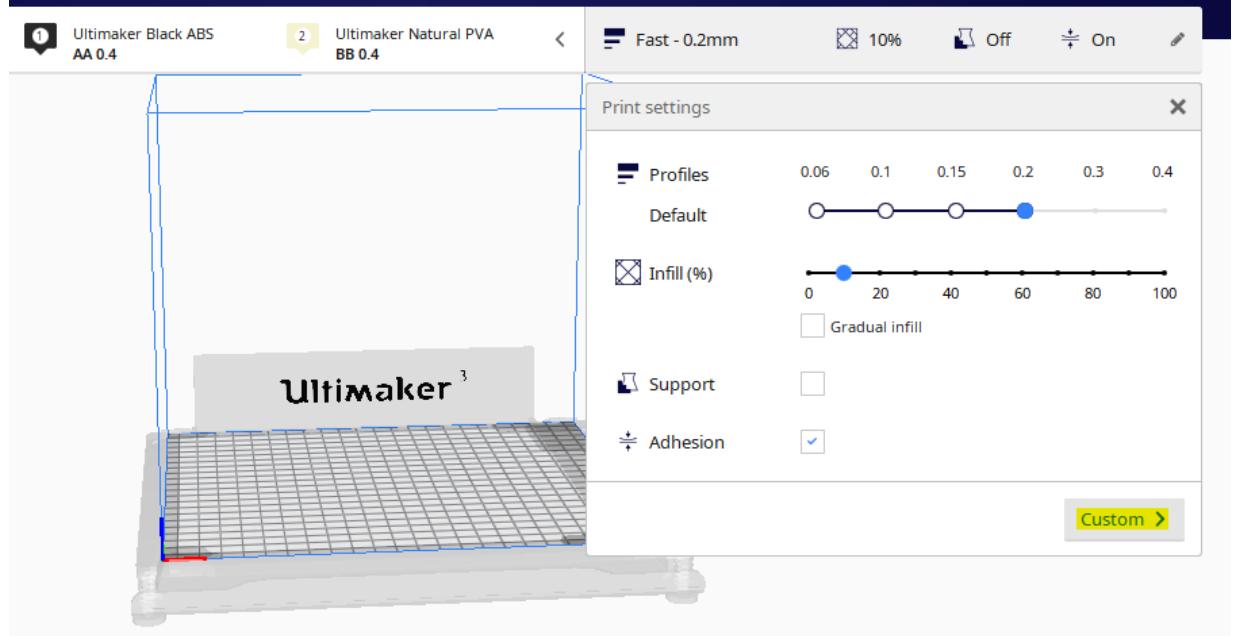
Type: BB 0.4

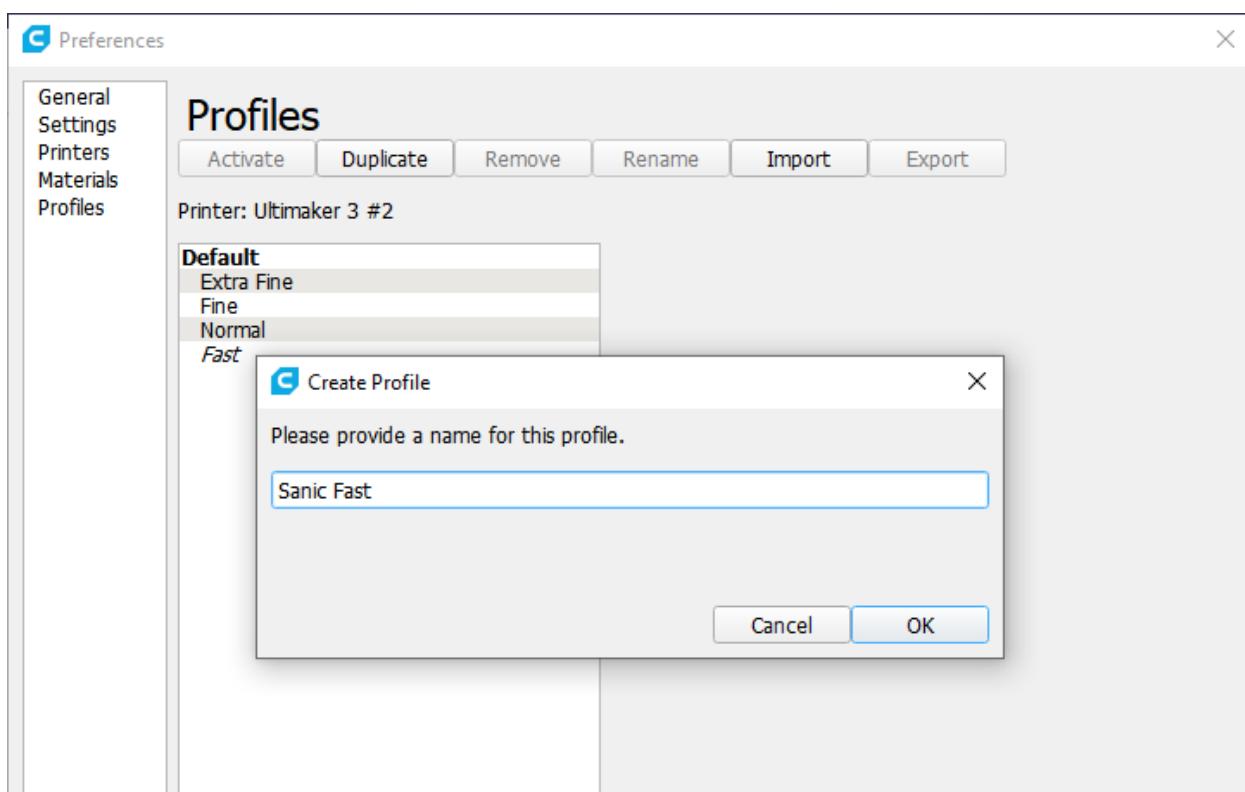
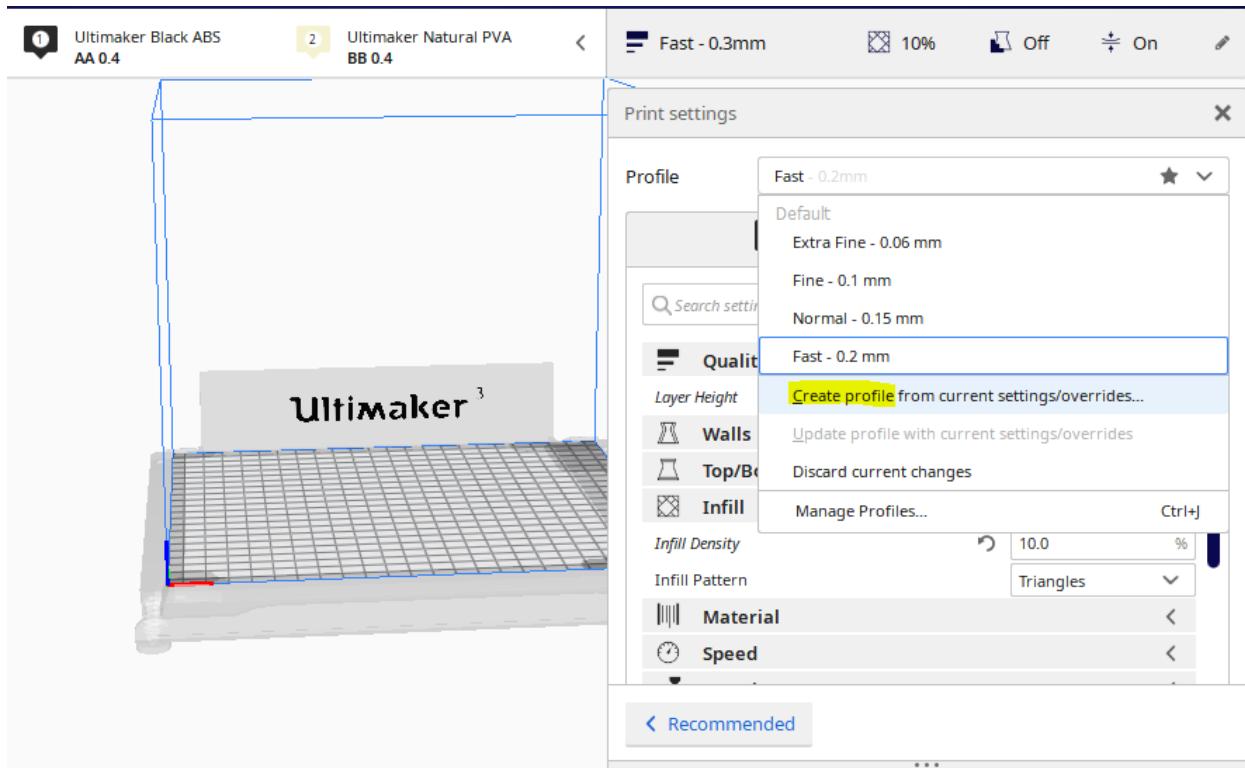




7. Setup Print Profile

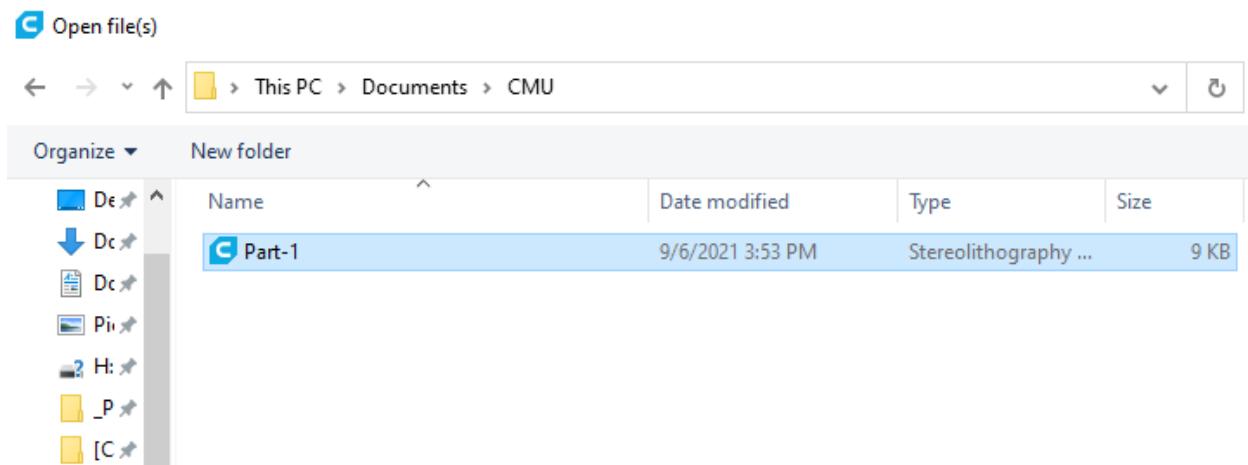
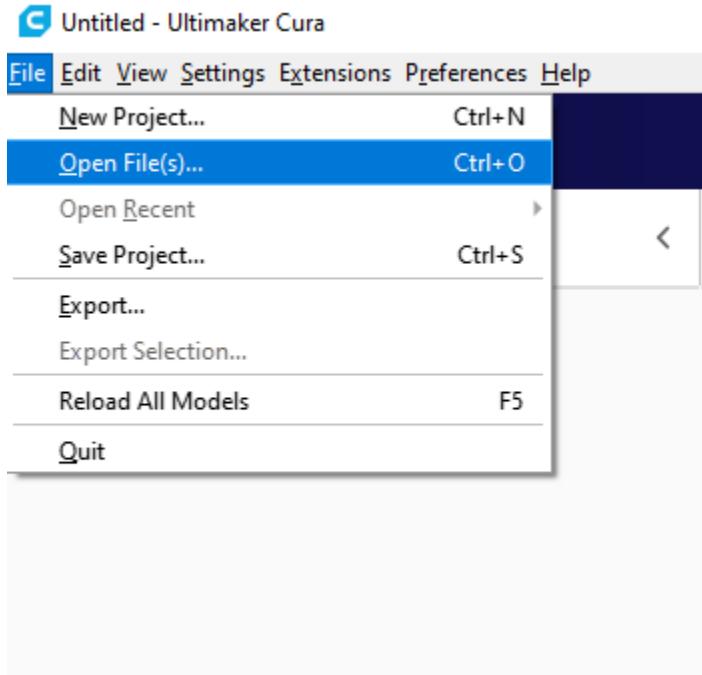
- This part depends on your project/application. For the sake of the assignment, we are going to create a custom profile at 0.3mm layer thickness and 10% infill:





(or whatever name you choose)

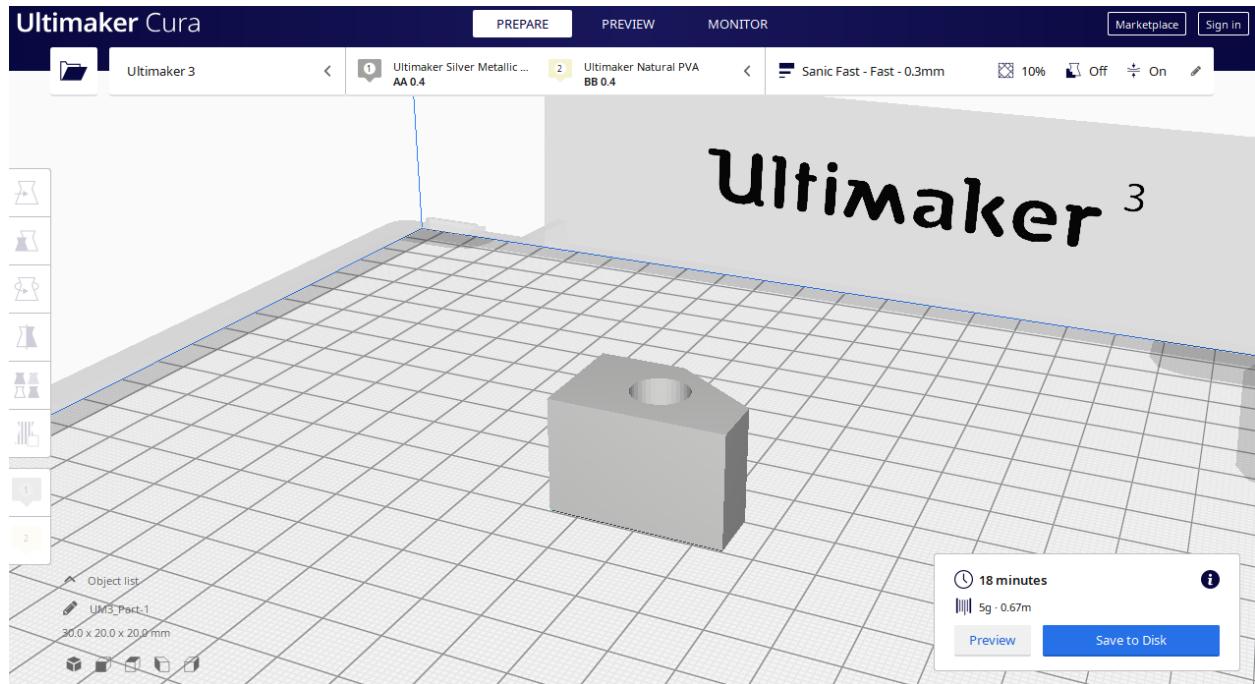
8. Select and Upload STL file:



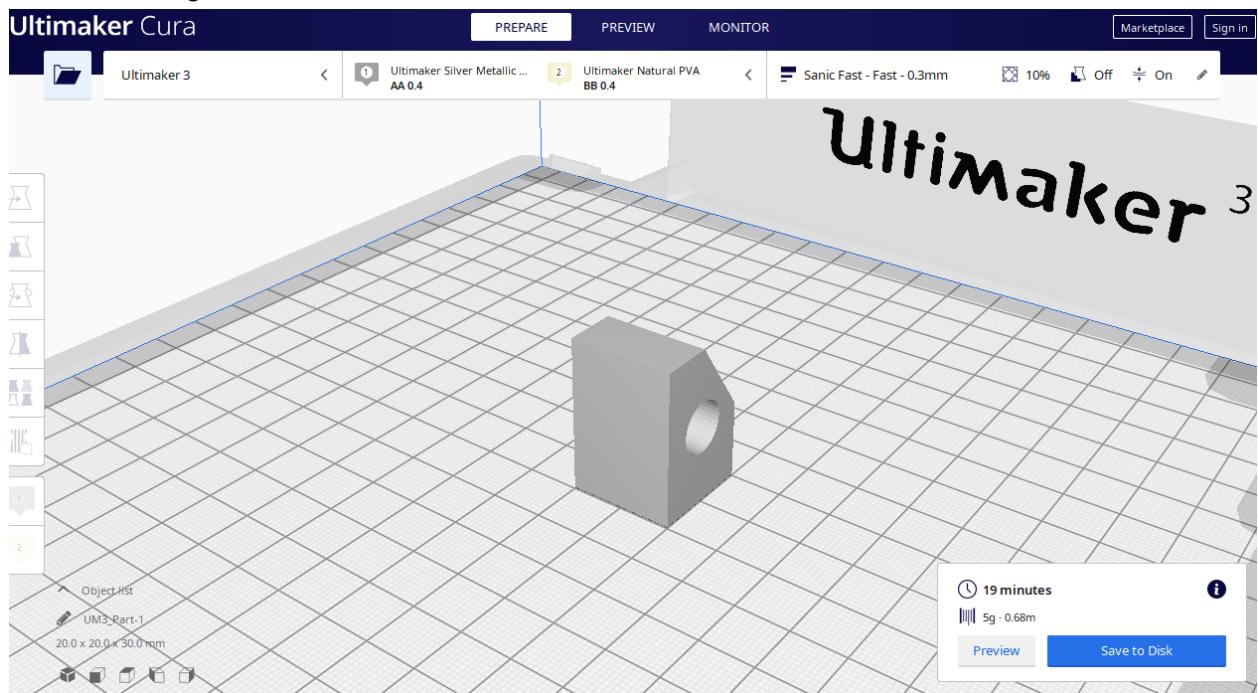
9. Check Orientation and Slice

- For this part, you have options on the left hand side of the screen to reorient your part. Generally you want the part to have a “low center of gravity”. This means orienting it in a way that maximizes the contact surface to the print bed.

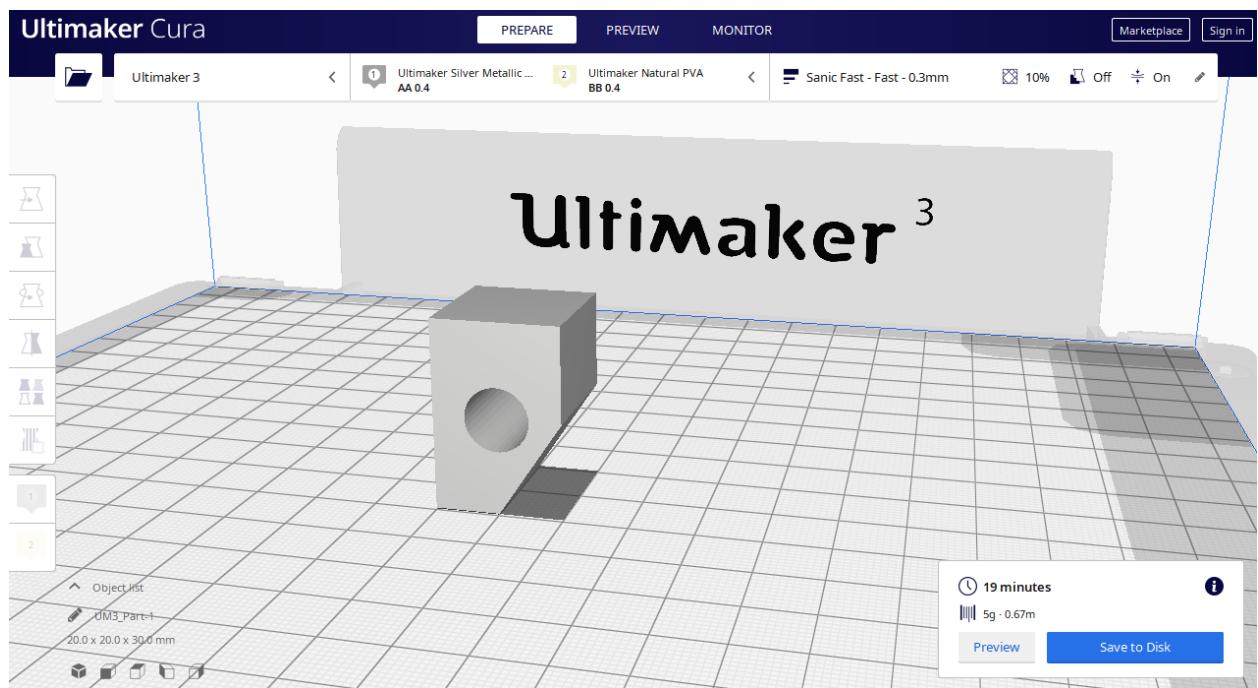
This is good:



This is not as good:

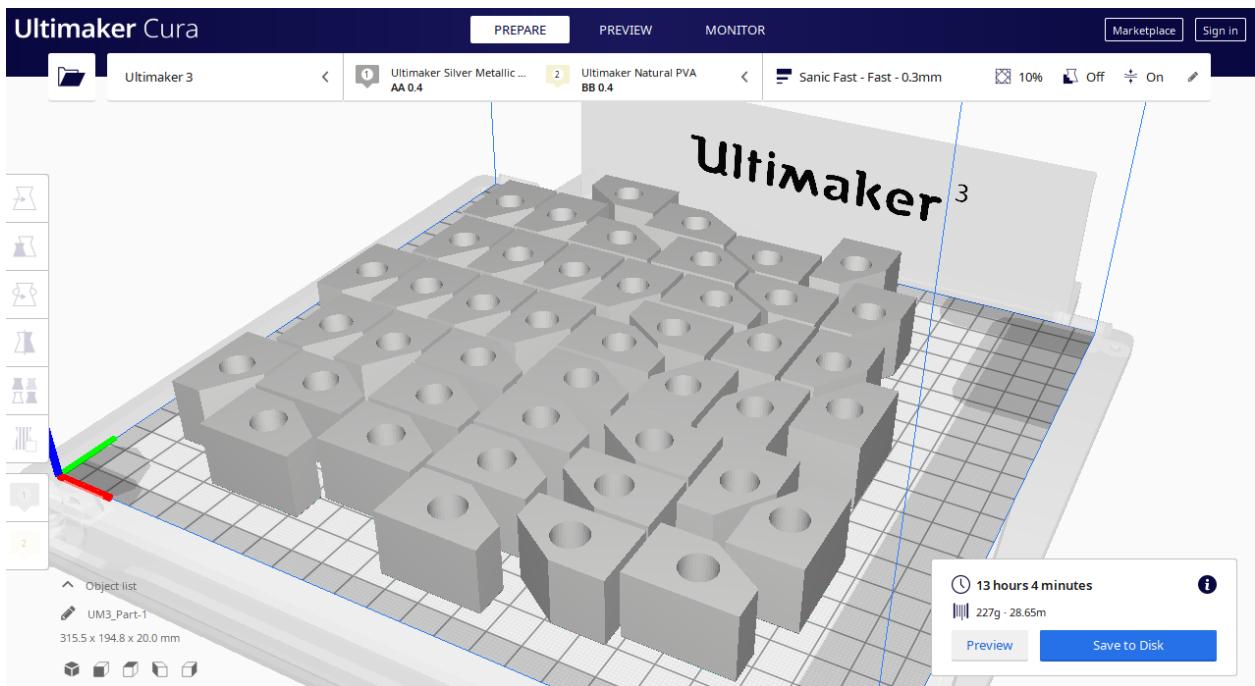
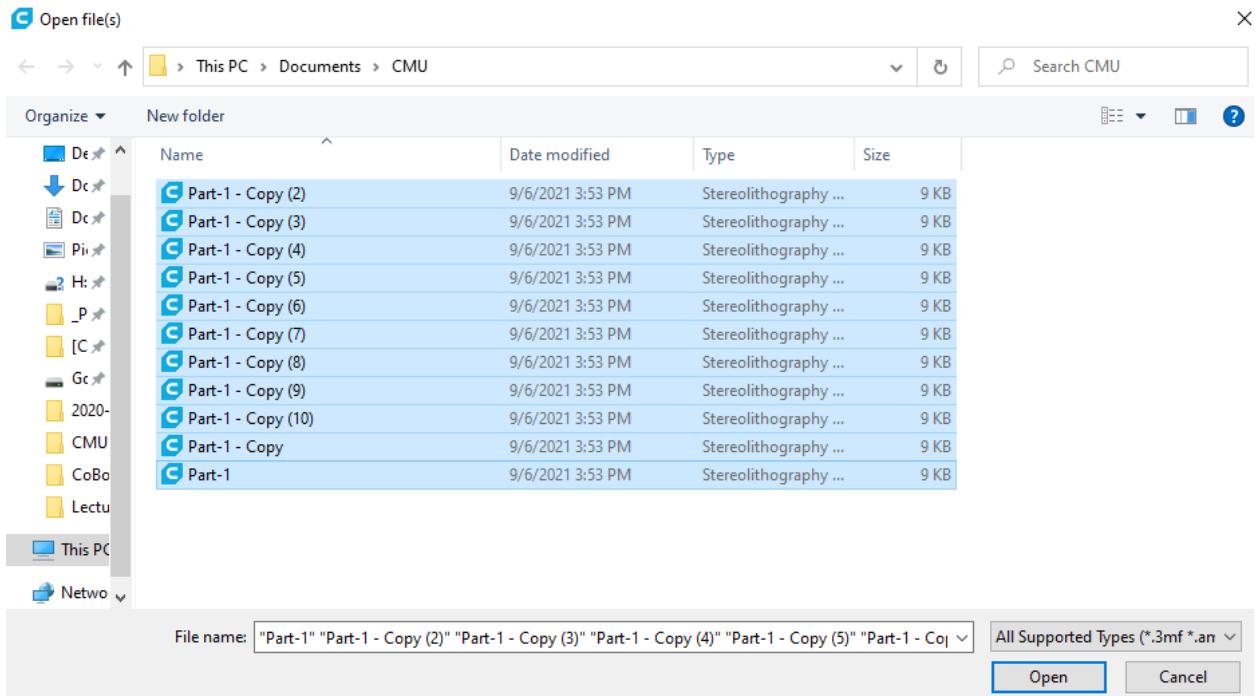


This is awful:



10. Adding More Parts:

- You can select/copy the same file multiple times to print it more than once:



11. Adding Support Material:

- By default, support material isn't added to your print. You can do this by enabling it in the "print settings". Make sure to specify **extruder 2** as the extruder for support material, so that PVA (the meltable filament) will be used as support:

