3D Printing Guidance

Step by Step

set up Prusa slicer and 3D Printeros

Zihan Miao

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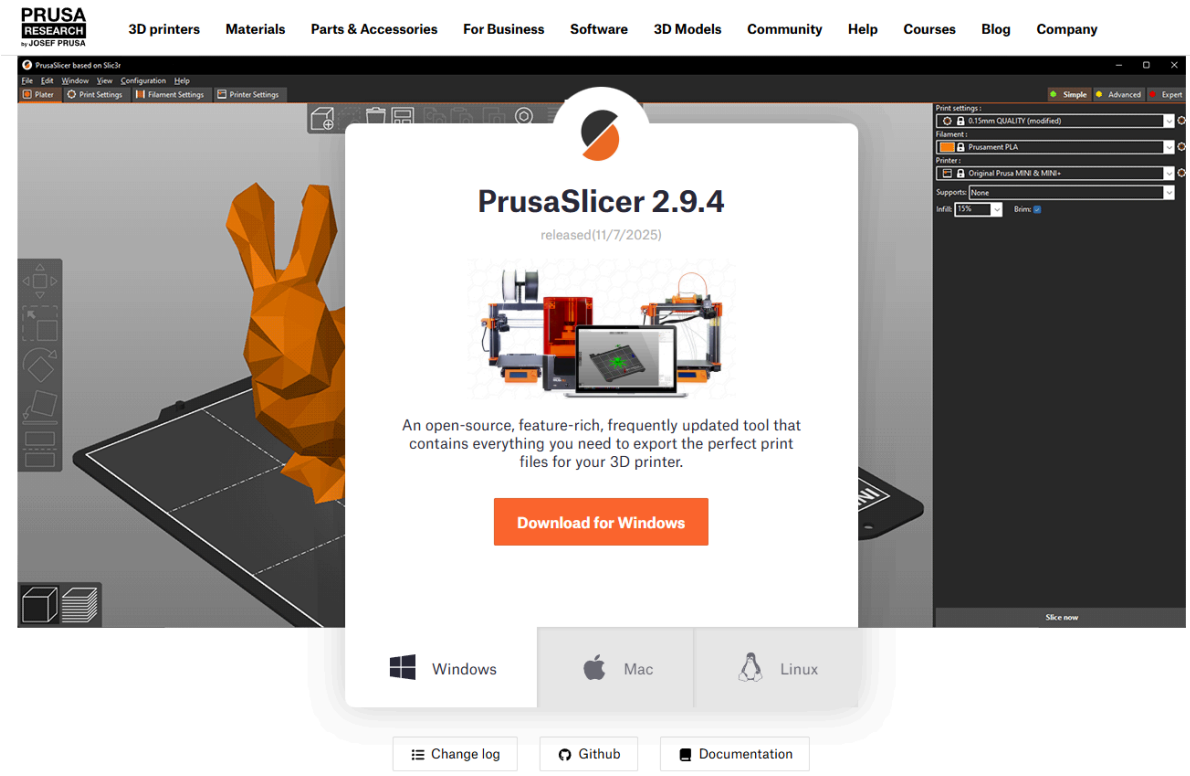
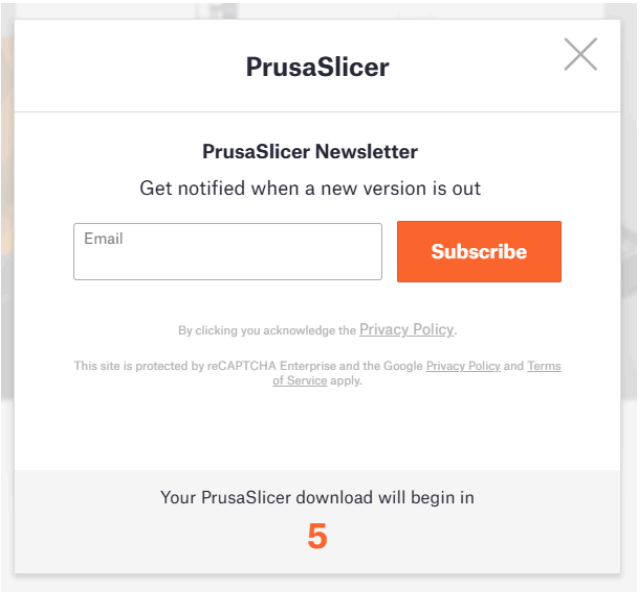
The main tools we used for 3D printing is **Prusa slicer**

Prusa slicer Download Link- https://www.prusa3d.com/page/prusaslicer_424/

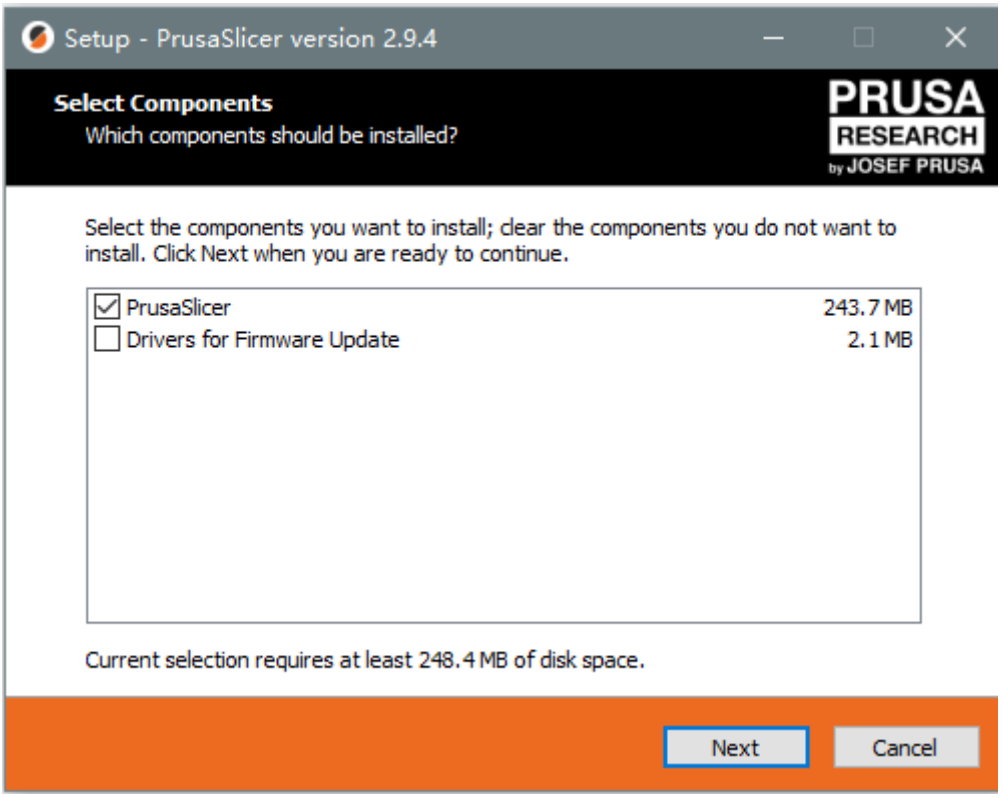


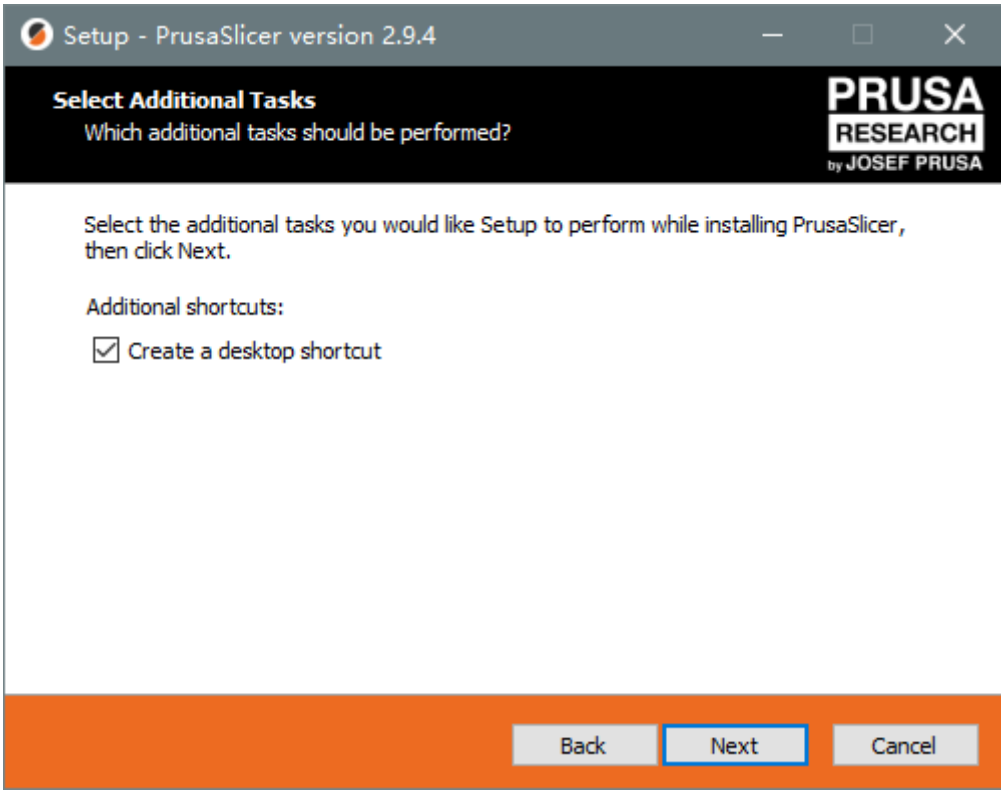
It's free to use and you don't have to sign up or enter your email address. Find the computer system you are using and click download.

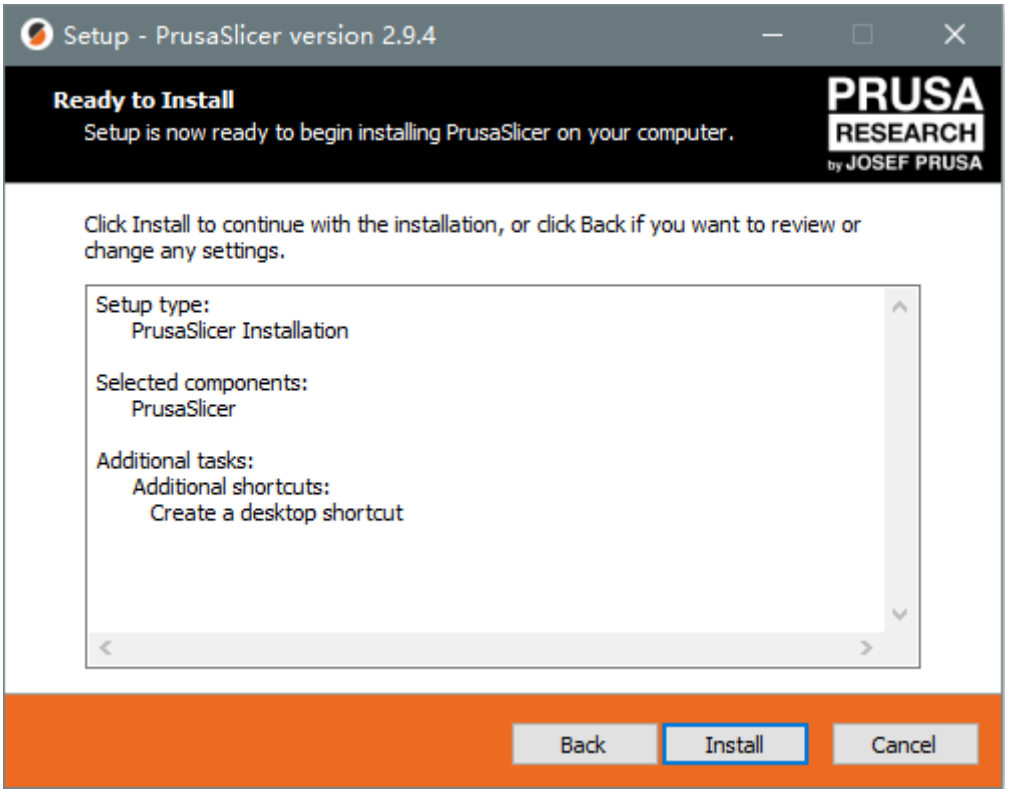


After waiting 10 seconds, it will start downloading.

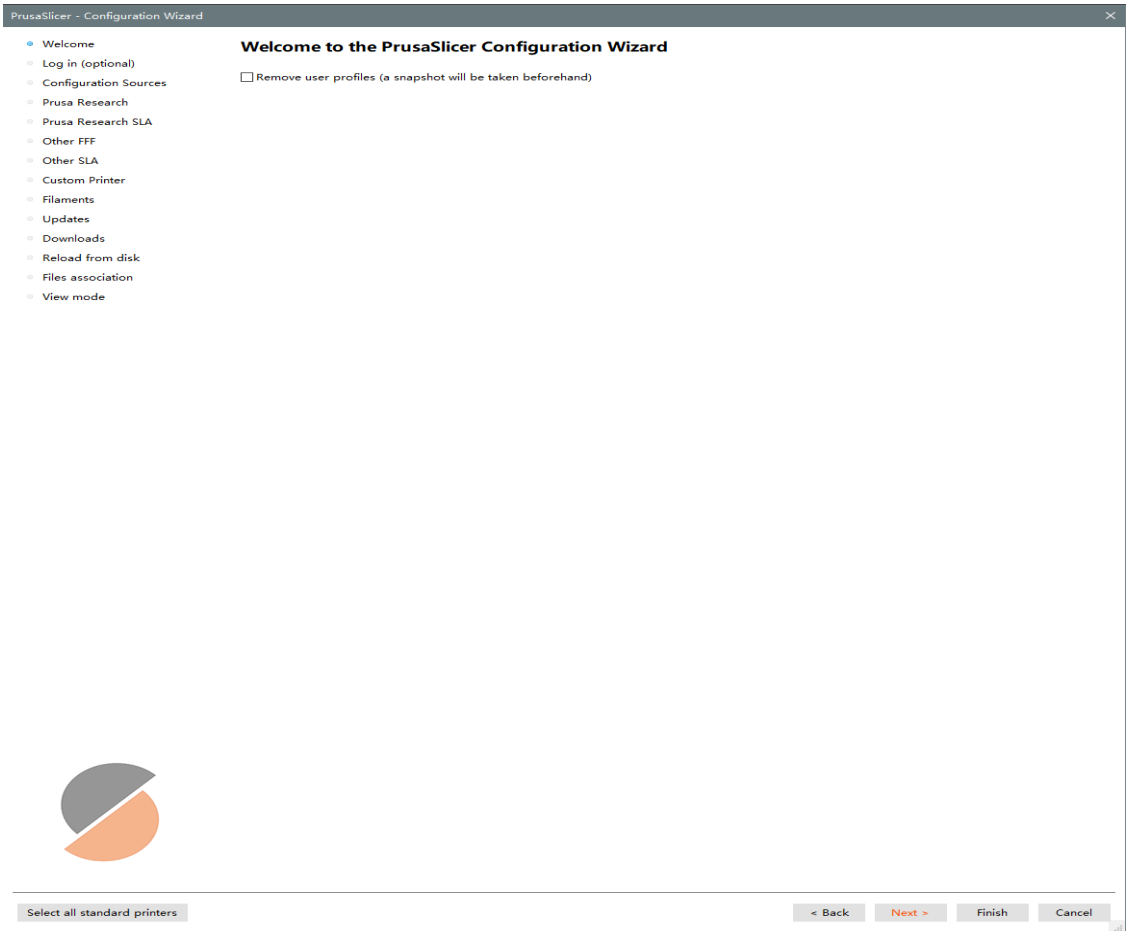
After downloading click the file you downloaded then get started to set up the installation.


Setup - PrusaSlicer version 2.9.4
Select Components
Which components should be installed?
PRUSA RESEARCH by JOSEF PRUSA
Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.
PrusaSlicer 243.7 MB
Drivers for Firmware Update 2.1 MB
Current selection requires at least 248.4 MB of disk space.
Next
Cancel


Setup - PrusaSlicer version 2.9.4
Select Additional Tasks
Which additional tasks should be performed?
PRUSA RESEARCH by JOSEF PRUSA
Select the additional tasks you would like Setup to perform while installing PrusaSlicer, then click Next.
Additional shortcuts:
Create a desktop shortcut
Back
Next
Cancel

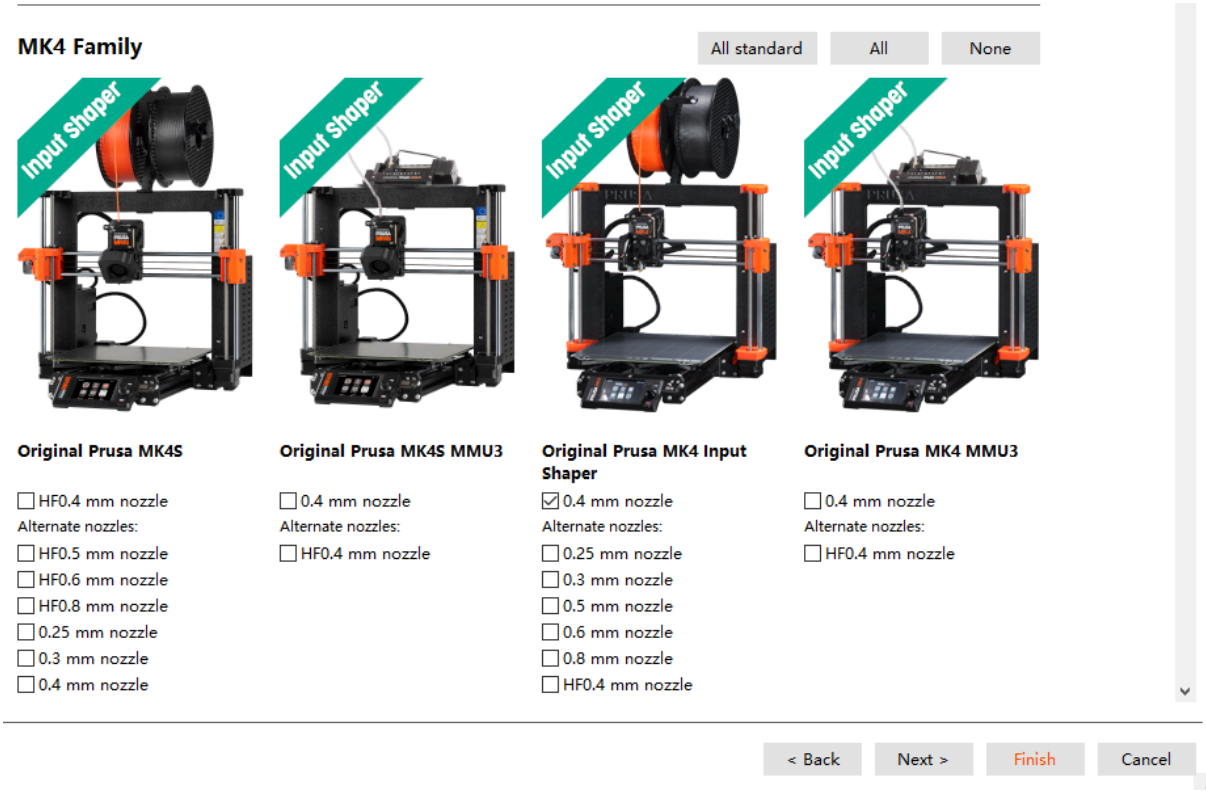


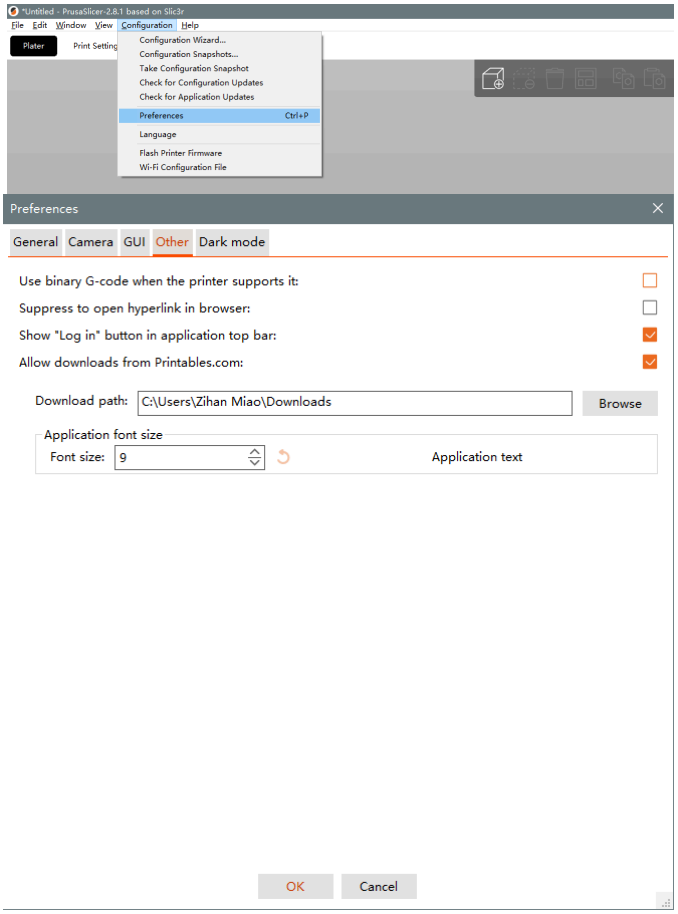
You don't have to do any other settings in this installation,just click ***Next-Next-Install-Finish*** the only setting might be the folder path, choose any folder path you want it be then click Finish.

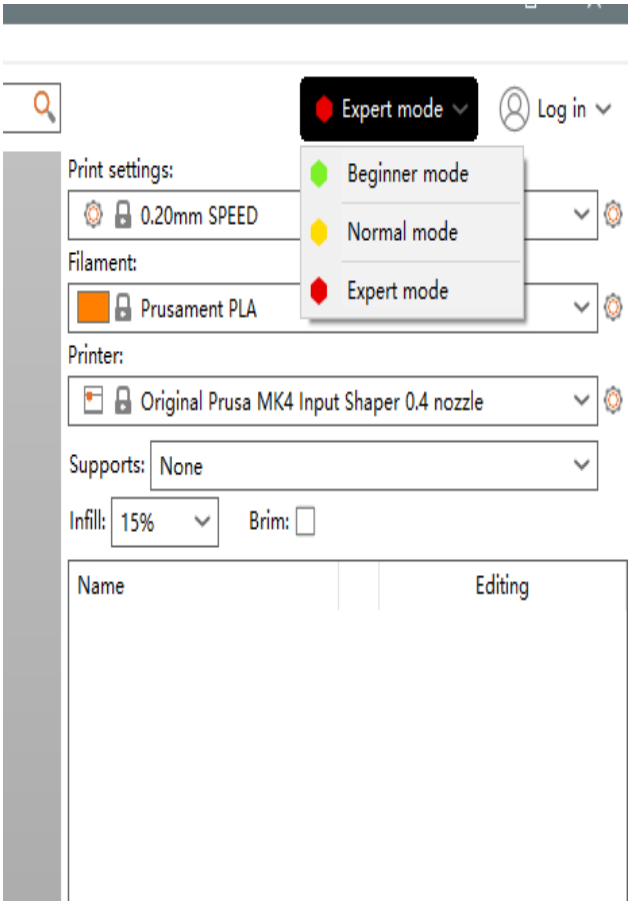


After installation you will see the welcome page, Keep clicking Next till Prusa research, select **Original Prusa MK4 Input Shaper 0.4 mm nozzle**.***Important*Choose the right printer.**

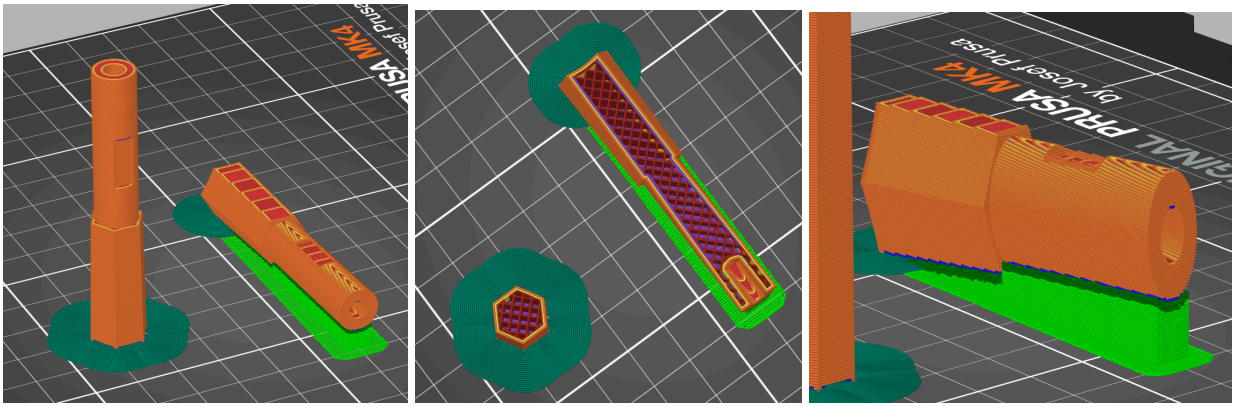
Then click finish and you will finish the printer selection.



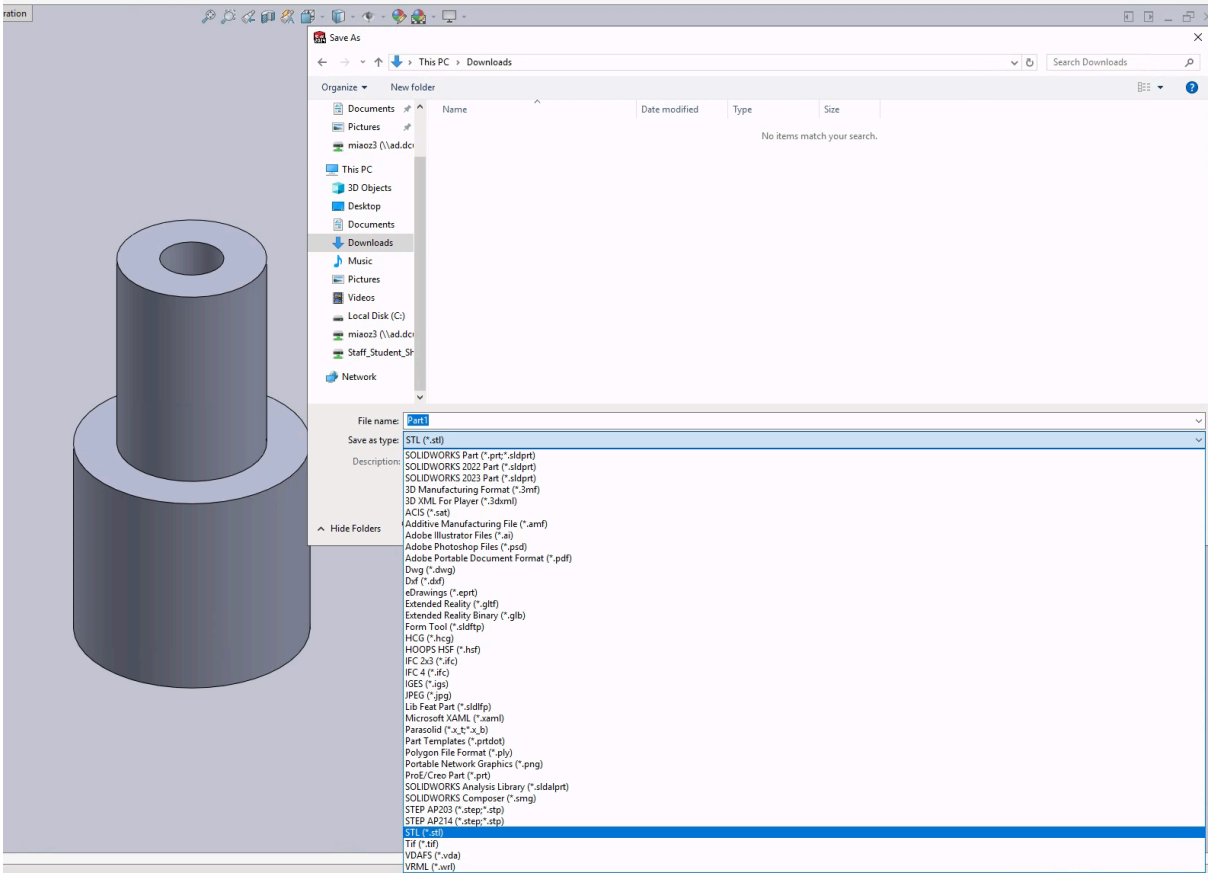


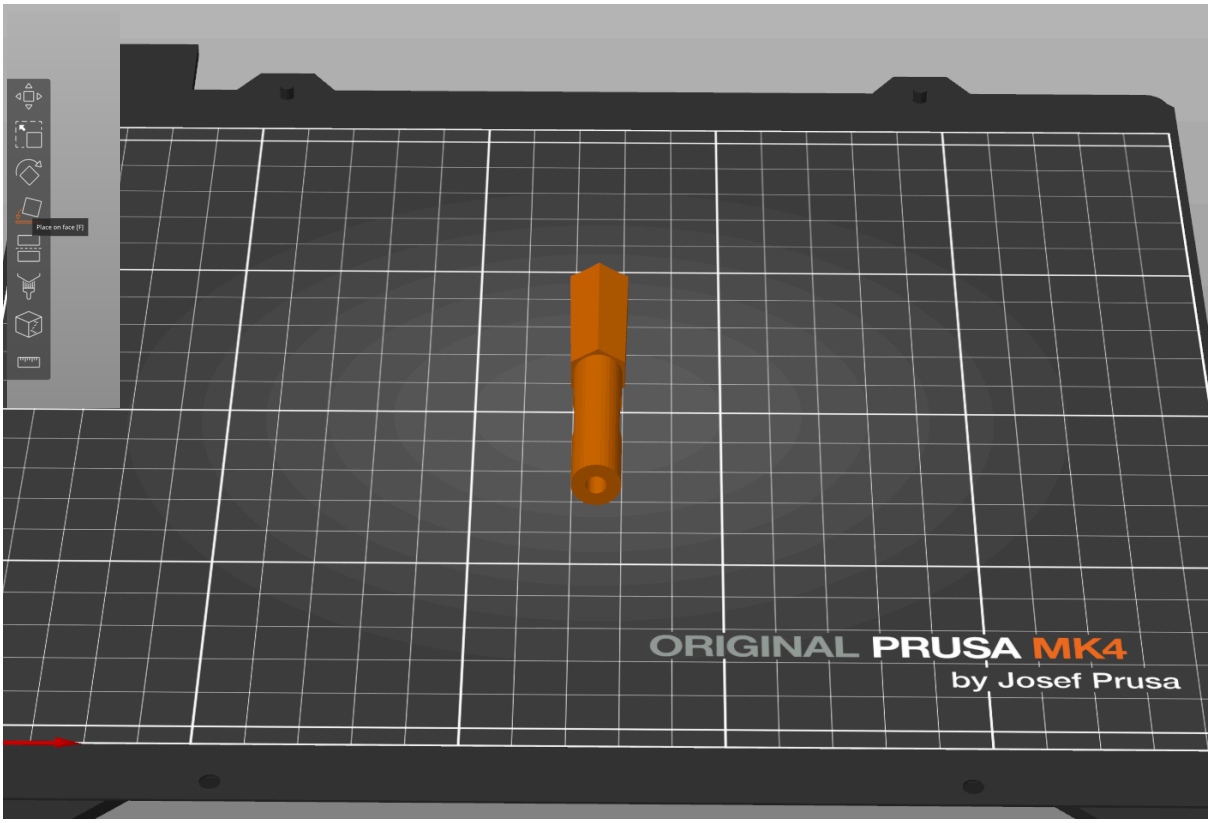


Next step Configuration-Preference-Other-**Unselect** Use binary G-code when the printer supports it then click OK.
At the right side first of all change the mode from beginner mode to Expert mode.
Under **Filament** Choose **Pursament PLA** as the print material.
Depending on your needs change the supports, infill and brim for your print.***Important*Add Brim every time.**

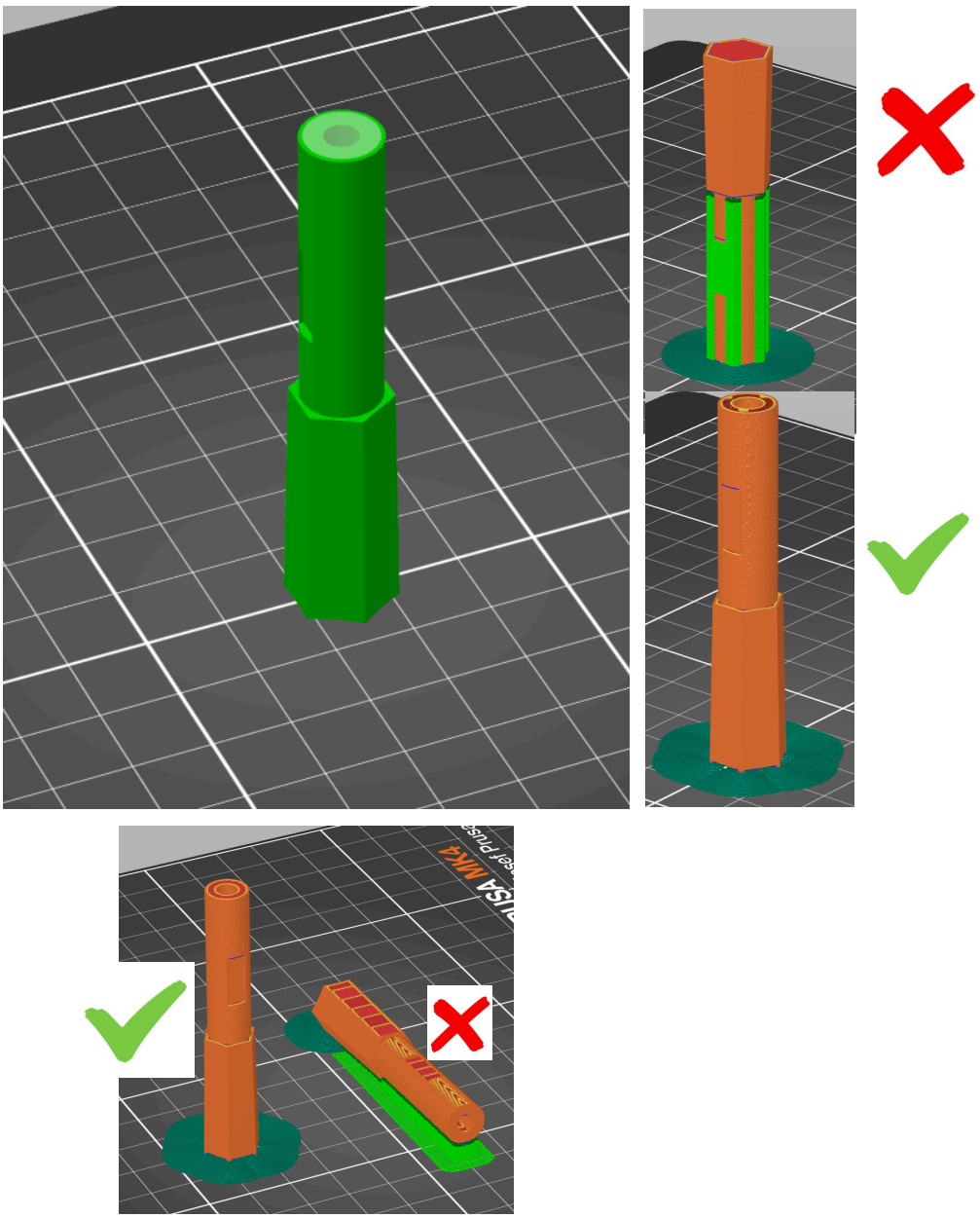


Save your Solidworks Part as **STL FILE.** Import STL FILE into prusa slicer.

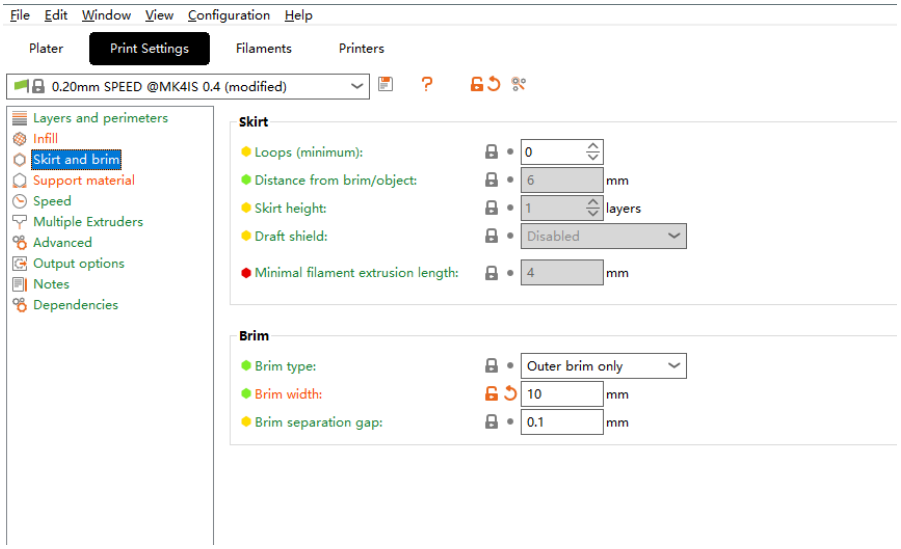




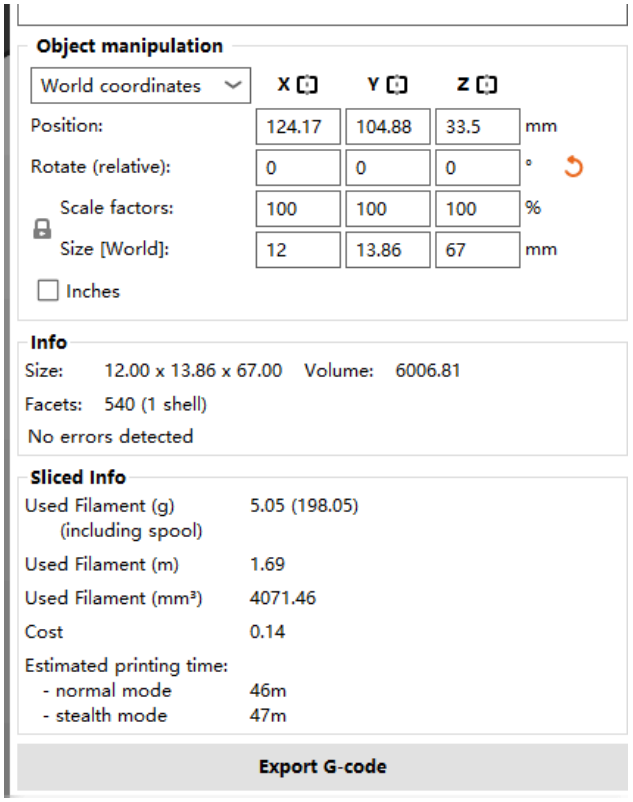
Click the part to select it and at the right side select place on face to find the best position. **Best Position means better contact area with the plate and less support you need.**



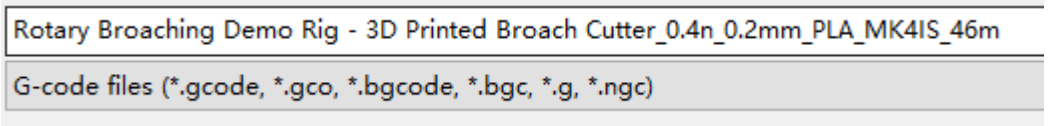
You could change the brim width and support details in **Print settings**, skirt brims width depends on how big or tall of your part, **bigger or taller part the wider brim you need.**



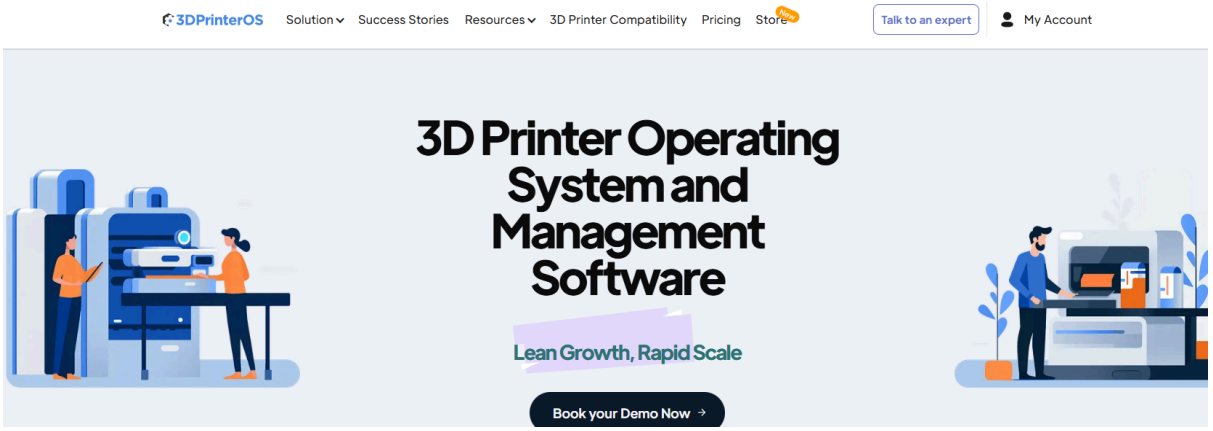
After slicing you will see these information at the bottom right, these information shows you how many grams materials you will use and how long it will take to print it out.



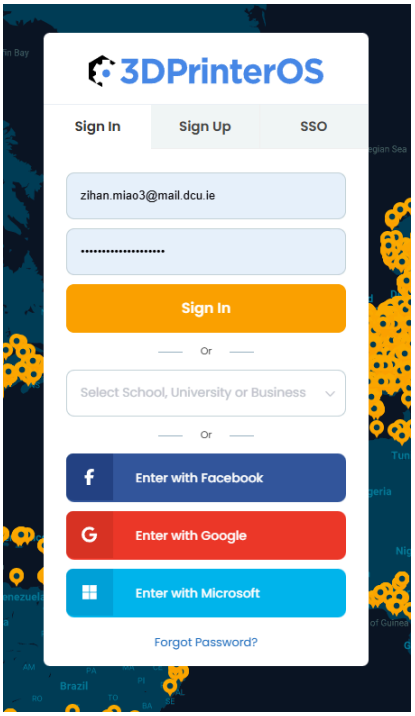
Then click Export G-code, you will get your **GCODE FILE.**



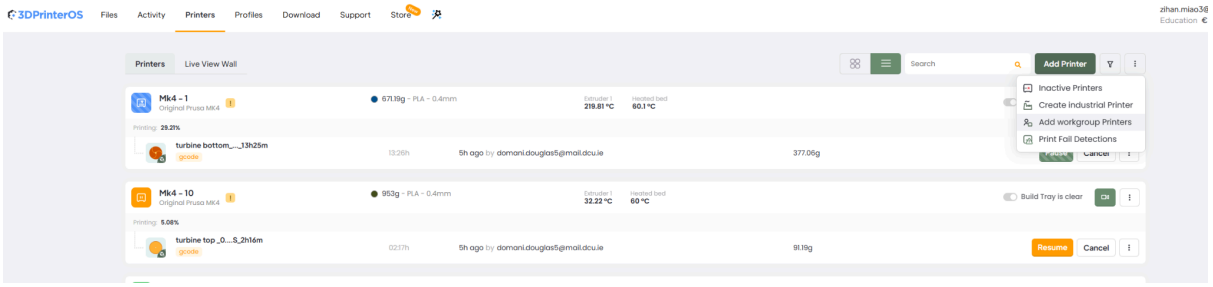
We will use the other website tool to help us connect the workshop printer, we will upload our Gcode file to **3DPrinteros** and print the part by internet.
3DPrinteros-https://www.3dprinteros.com/



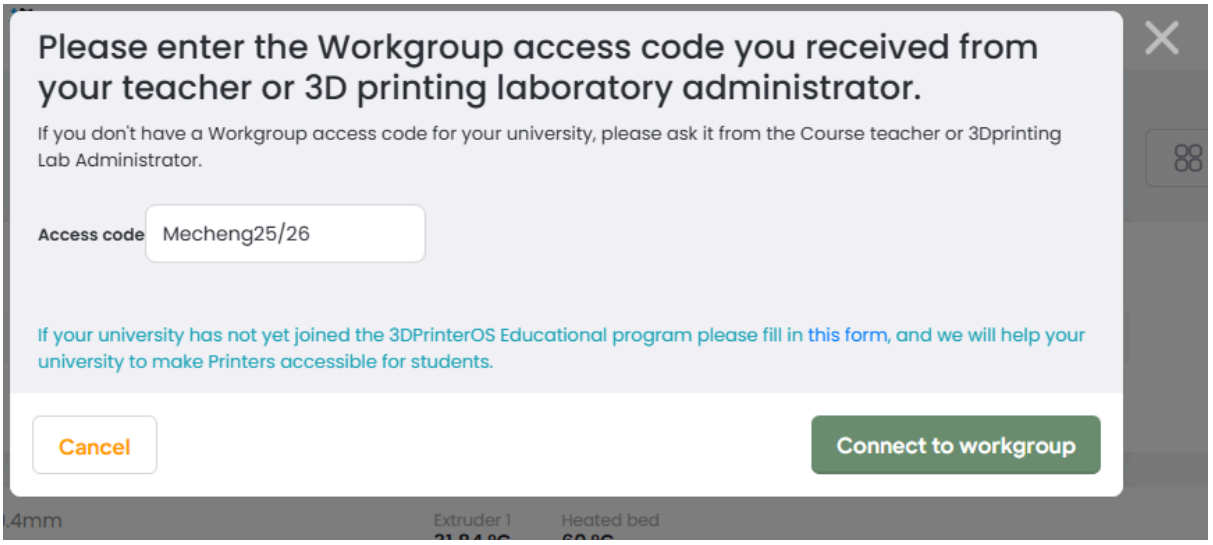
Click My Account and click Enter with google, use your student email address to sign in.



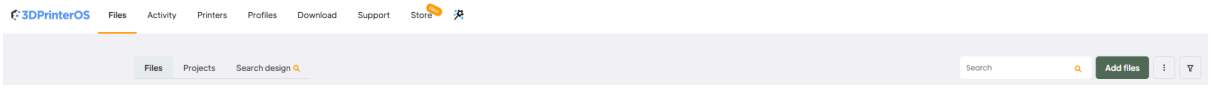
Under Add printer click add workgroup printers.



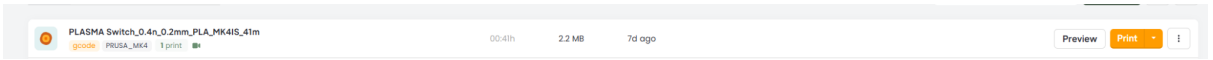
Enter our Access code- **Mecheng25/26** to connect workshop printers.



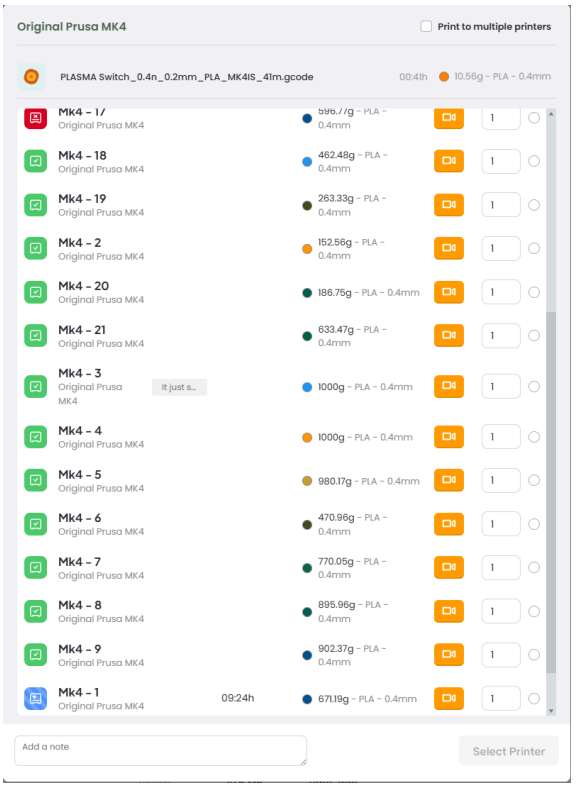
Under File click add file to upload the **GCODE FILE.**



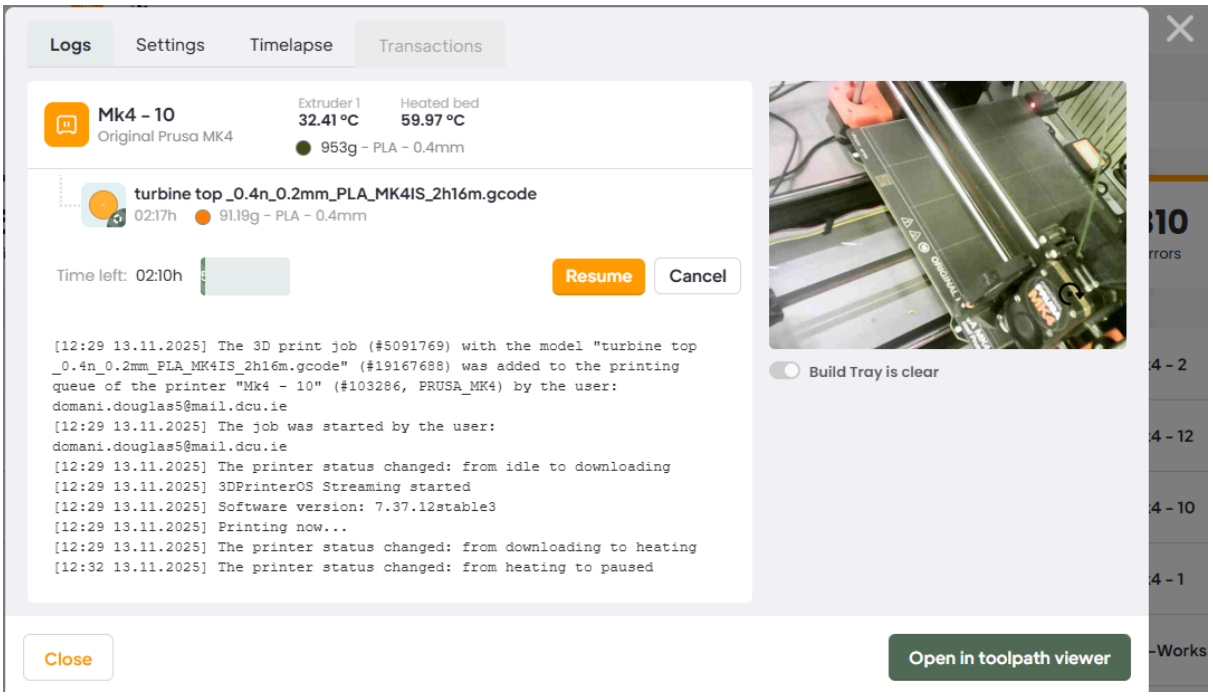
Then you will see the list shows like below, click print to print your part.



Then you will see all printers we have in the workshop, choose any printer in green(free to use), red means bed is not clear, blue means someone is using. **DO NOT** queue your print, your part will fail to print after queuing.



After all you will see this page that means your part is printing, check the time it will cost and pick it when it’s finished.



Well Done !!!
This is a brief introduction, you can continue to explore how to use these two tools more professionally to complete your project. I wish you all the best in your project.