

## SAYRE AREA SCHOOL DISTRICT TECHNOLOGY TIPS

### COMPOSING YOUR FINAL PROJECT FOR BUILD ON 3D PRINTER

#### Purpose

1. This document will describe how to transfer/modify you final file that is already designed to the structure of the desired product into the file format that is required, and then downloaded to the SD Card for use.

**NOTE:** That you must have a completed (Pre-edited or set) template STL file that is ready to be built in the machine before you start this procedure.

#### Procedure

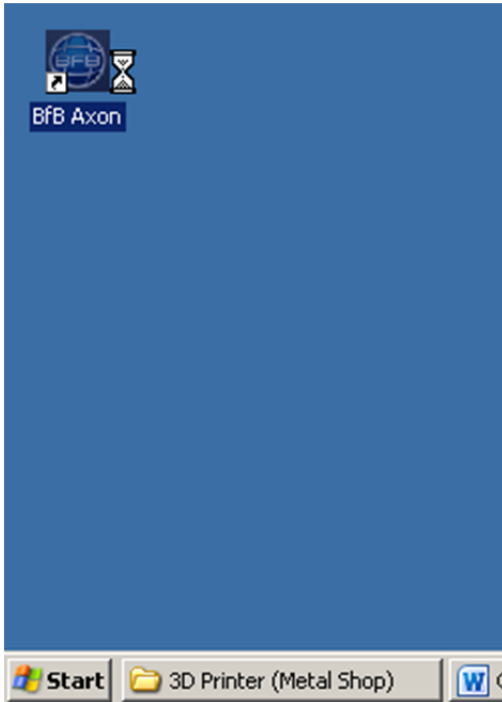
1. To Learn More About Editing or How To Finalize Files To Use Refer to the Axon Users Manual.

The manual can also be found here:

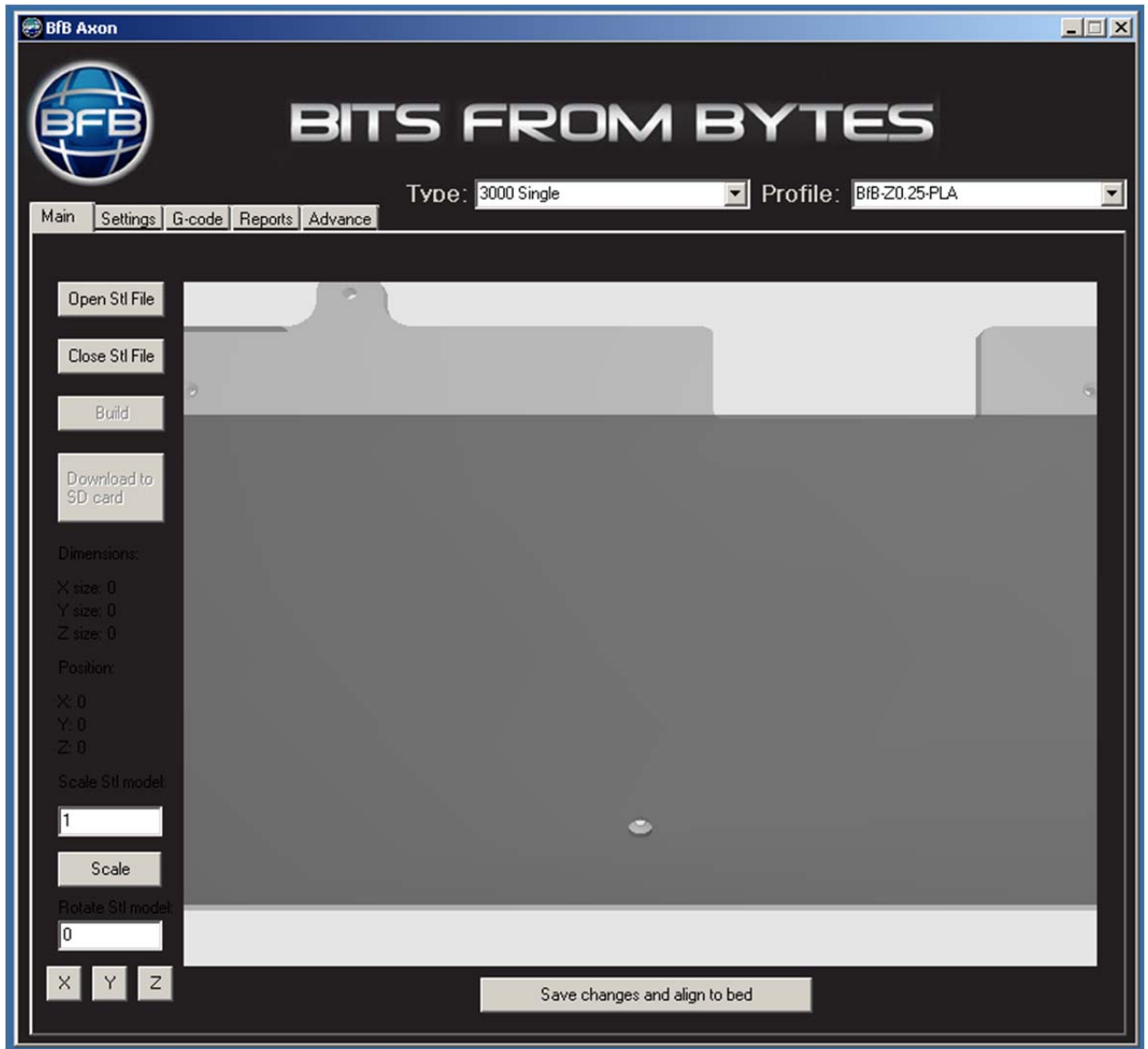
[Axon 1.1 Software Manual](#)

Also you can look at the Tech Manuals on the [www.sayresd.org](http://www.sayresd.org) website to find it.

2. To begin we are going to open the Axon 1.1 Program:



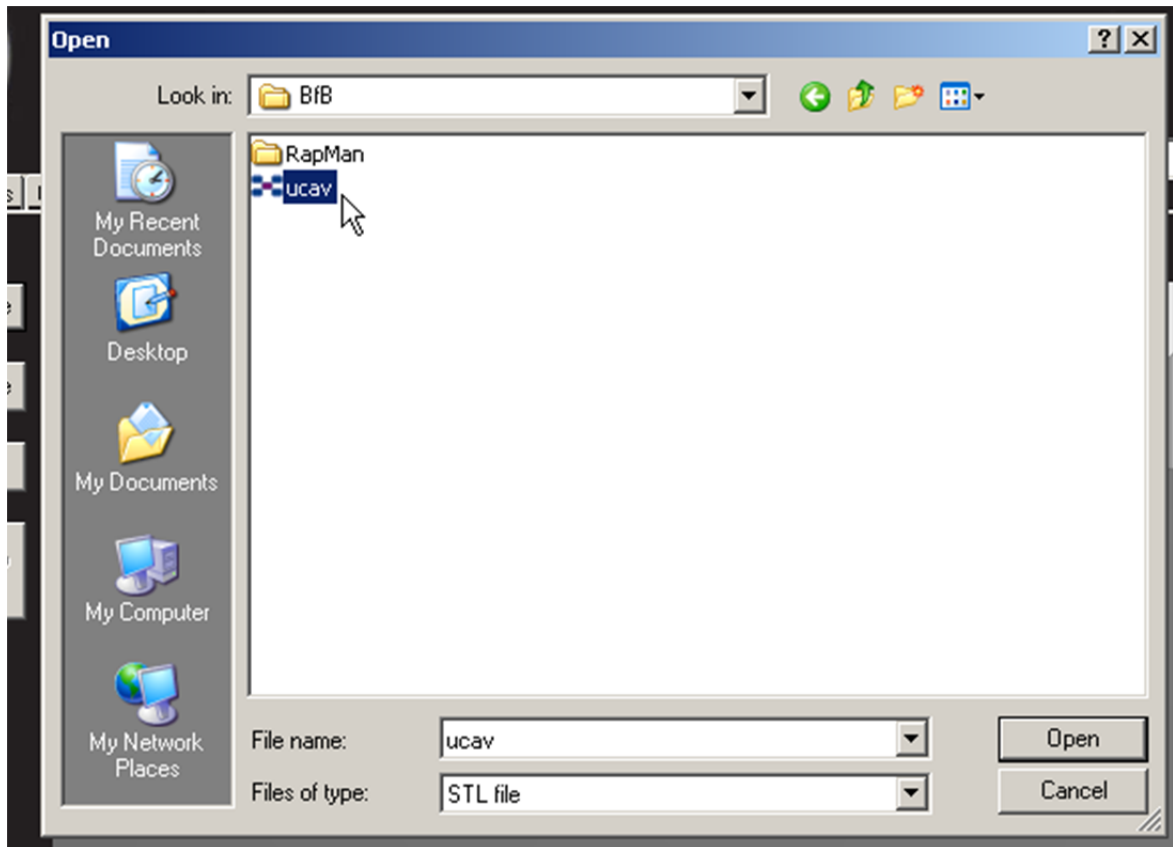
3. When the program opens it should look similar to this:



4. Now we will opening the desired STL files (file modified/created in netfabb, or other 3d design programs):  
Click **Open Stl File**:



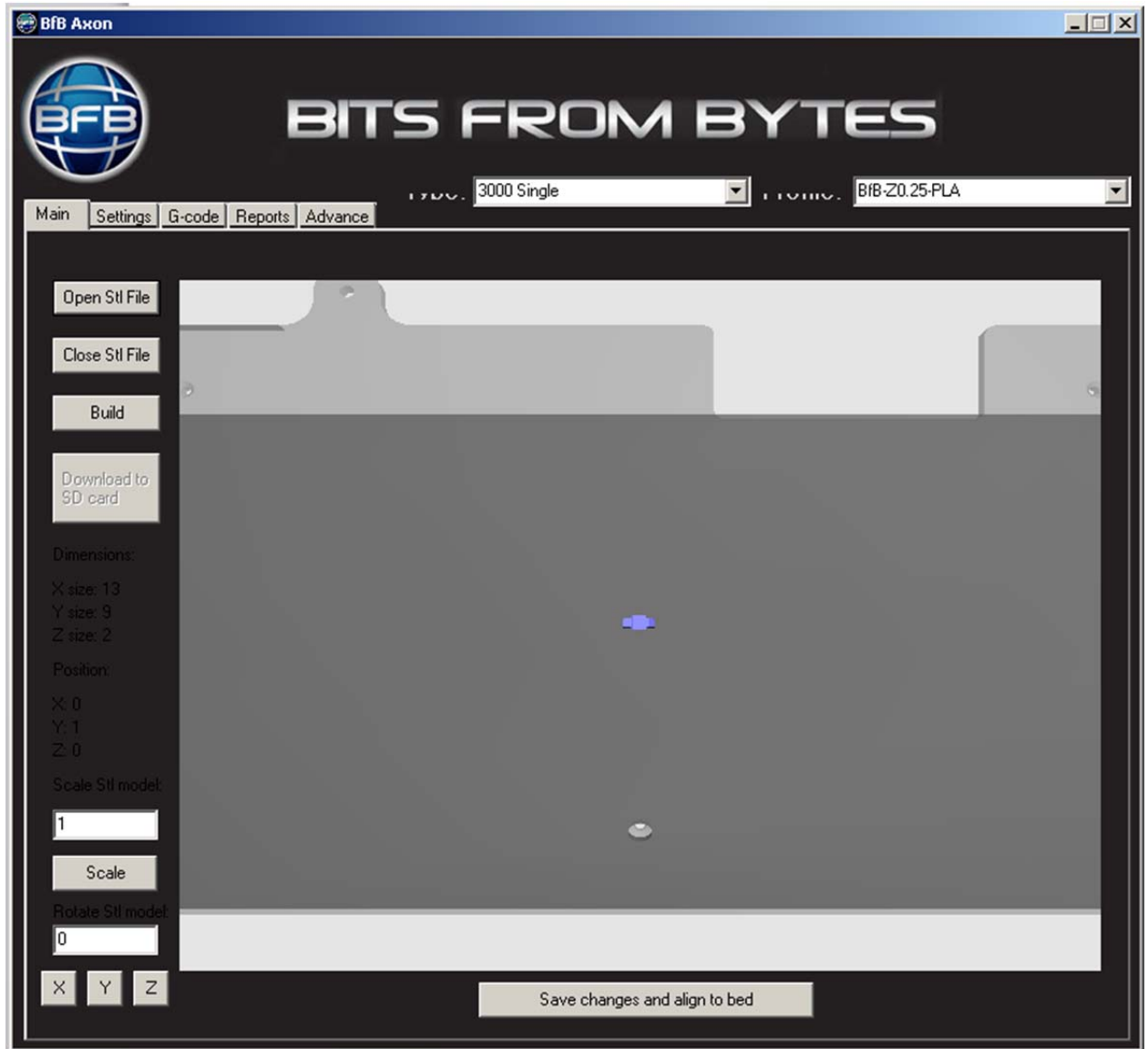
5. We will next navigate to the folder and find our desired STL file:  
Select the file and click **Open**:



6. You will see this screen with multipule progress bars, etc. go by, please wait for this to finish. This may take a few minutes:



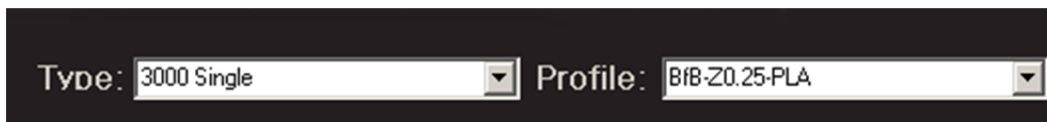
7. The product will then be shown in the viewing window:



8. We next need to ensure that the proper profiles are used to build the project, so the machine uses the right settings to build it:

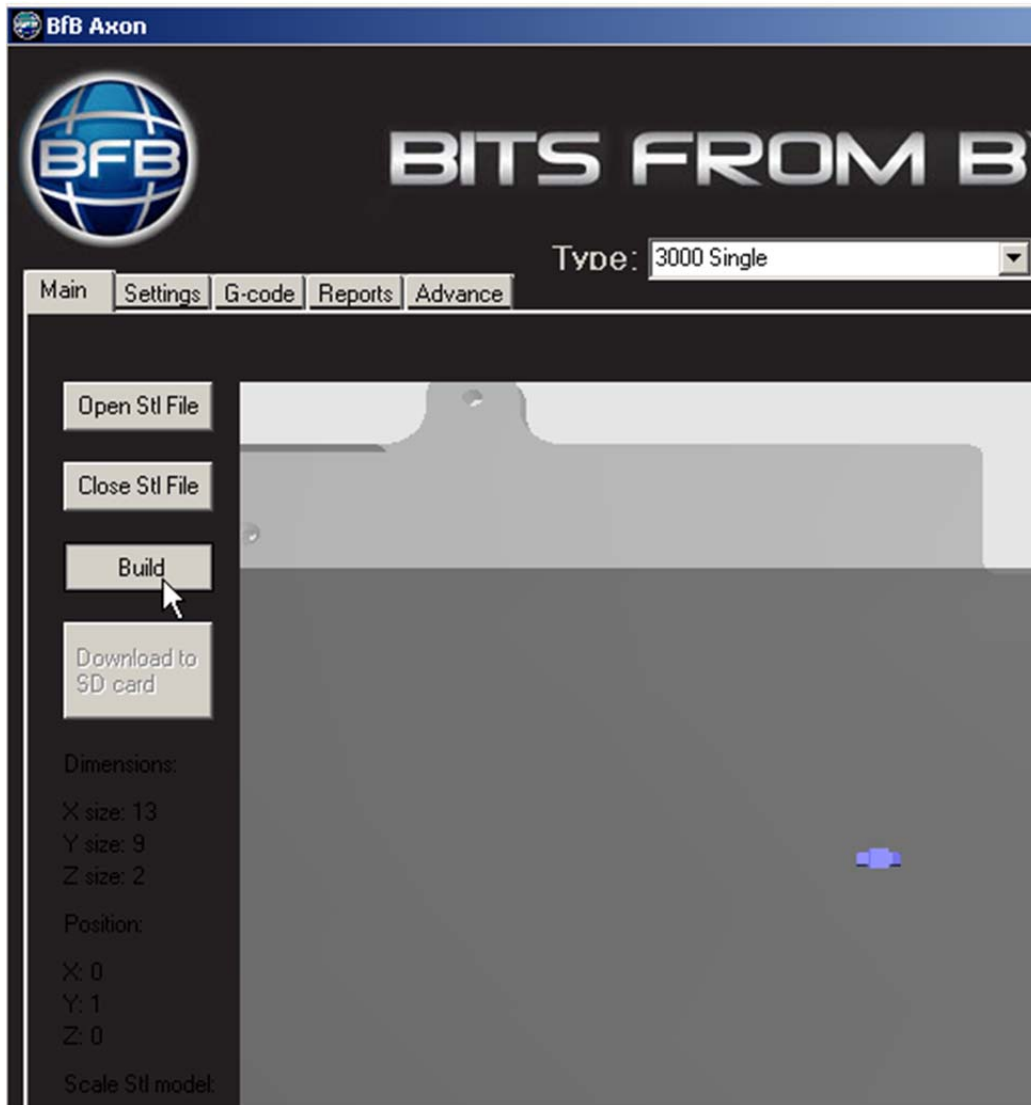
We will have **3000 Single** selected as our type.

If necessary your instructor will tell you how to change/use different profiles.

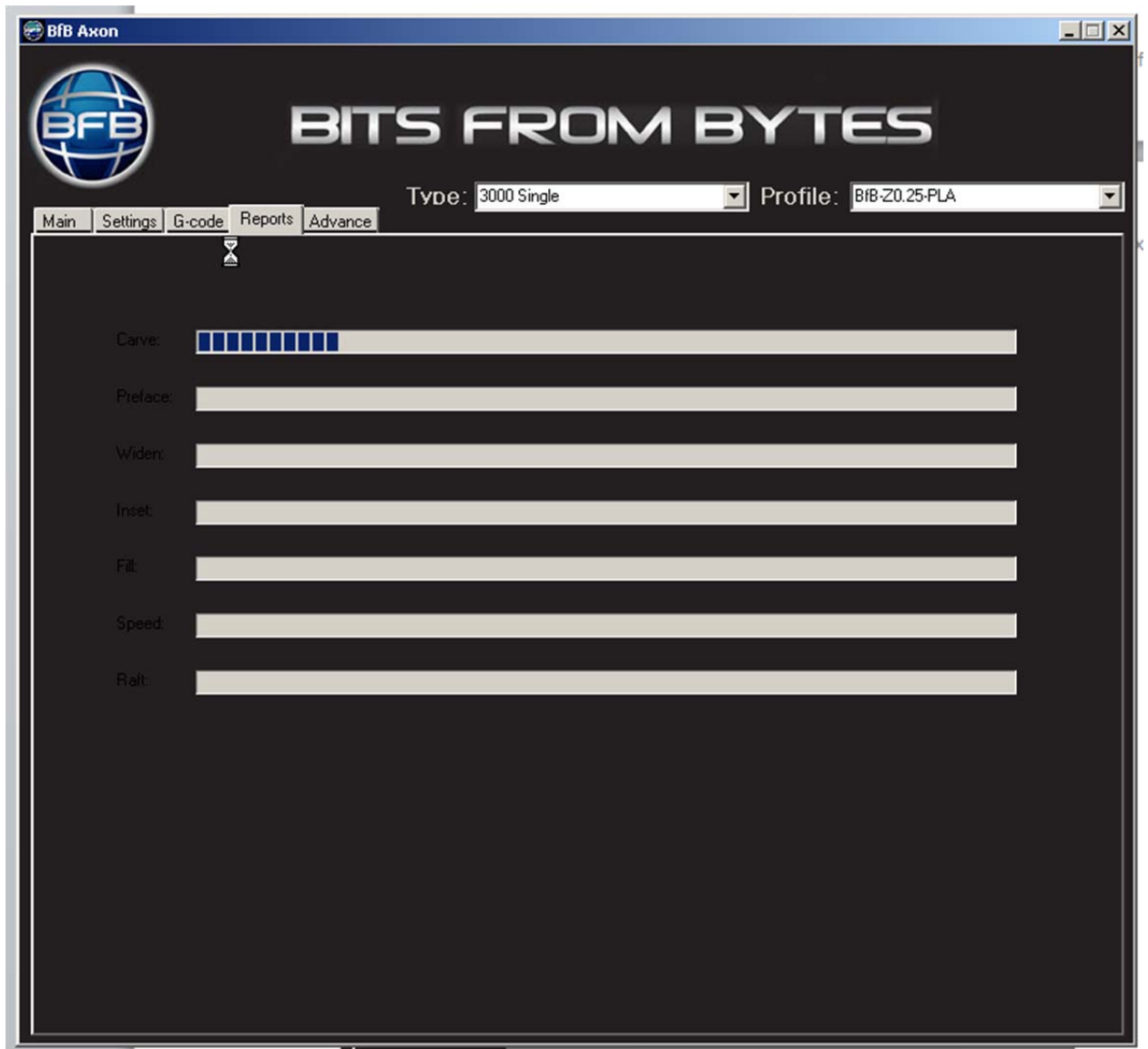


9. Next we will Build the project in the proper format of operations that will need to be performed by the 3D printer to make the plastic object:

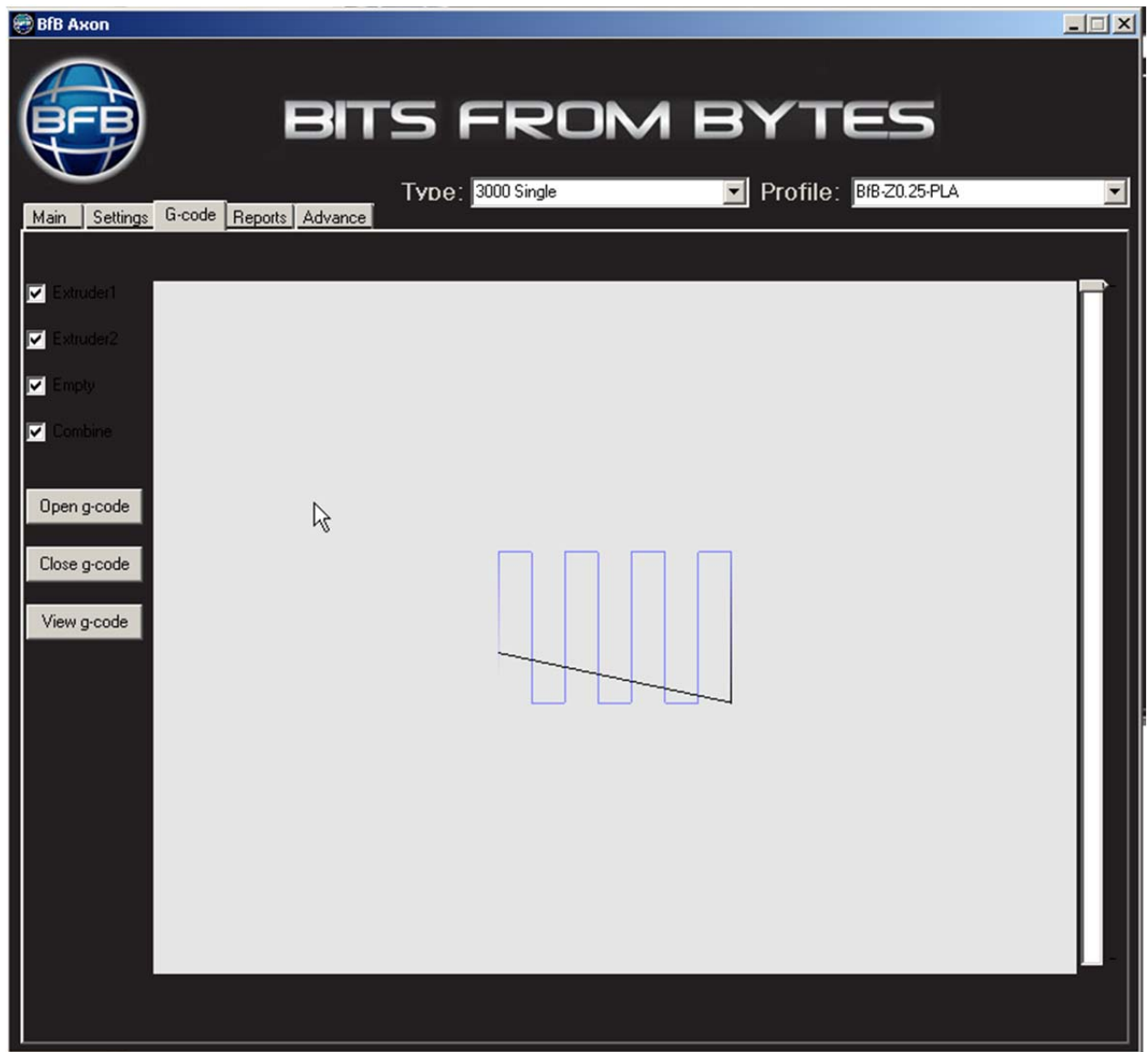
Click **Build**



10. After clicking Build the screen will change and you will again see progress bars as file operations are performed. This may also take a few minutes:



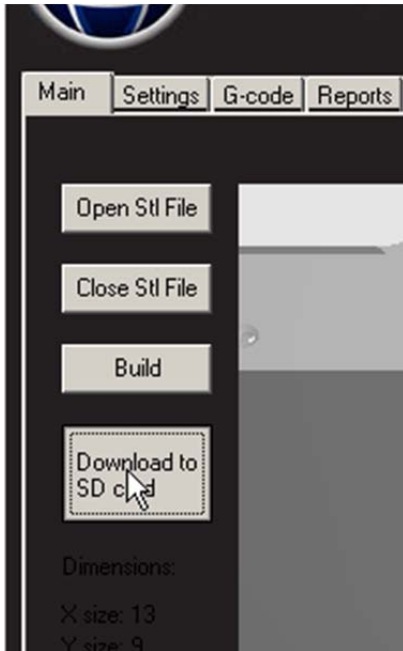
11. Chances are you will get a screen similar looking to this:



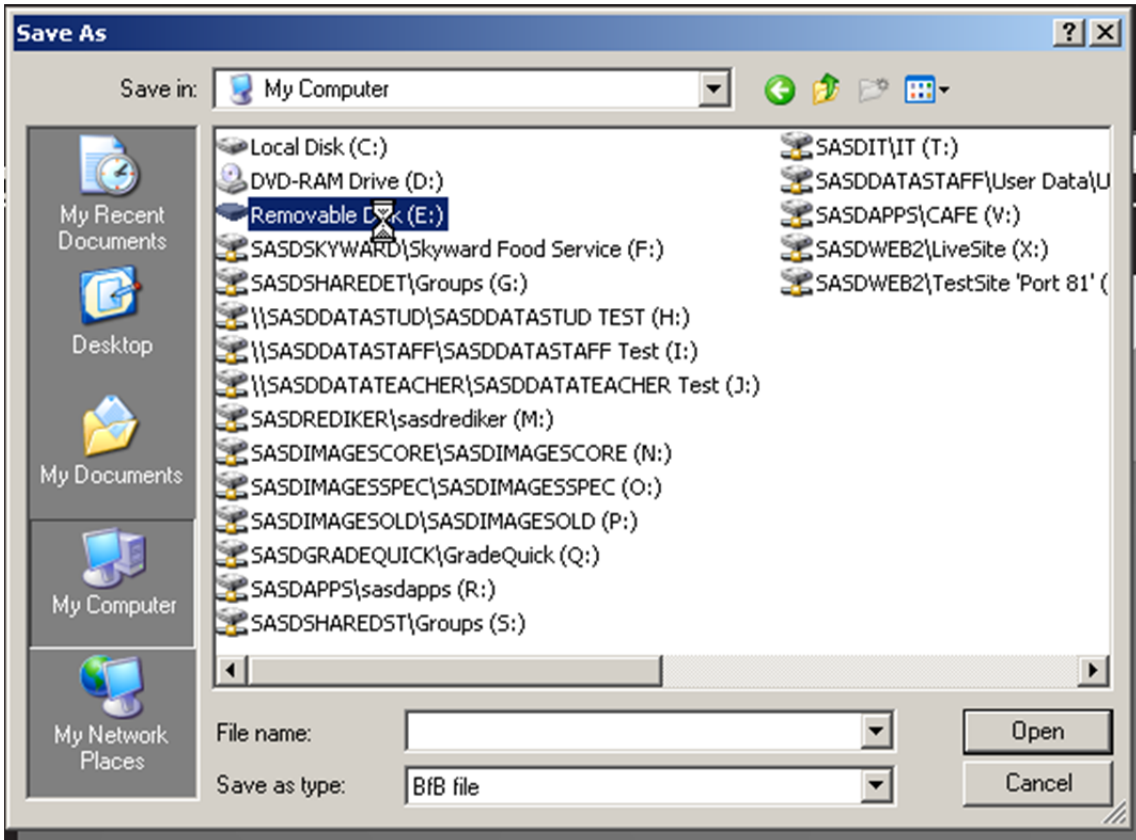
12. Click on the **Main** tab:

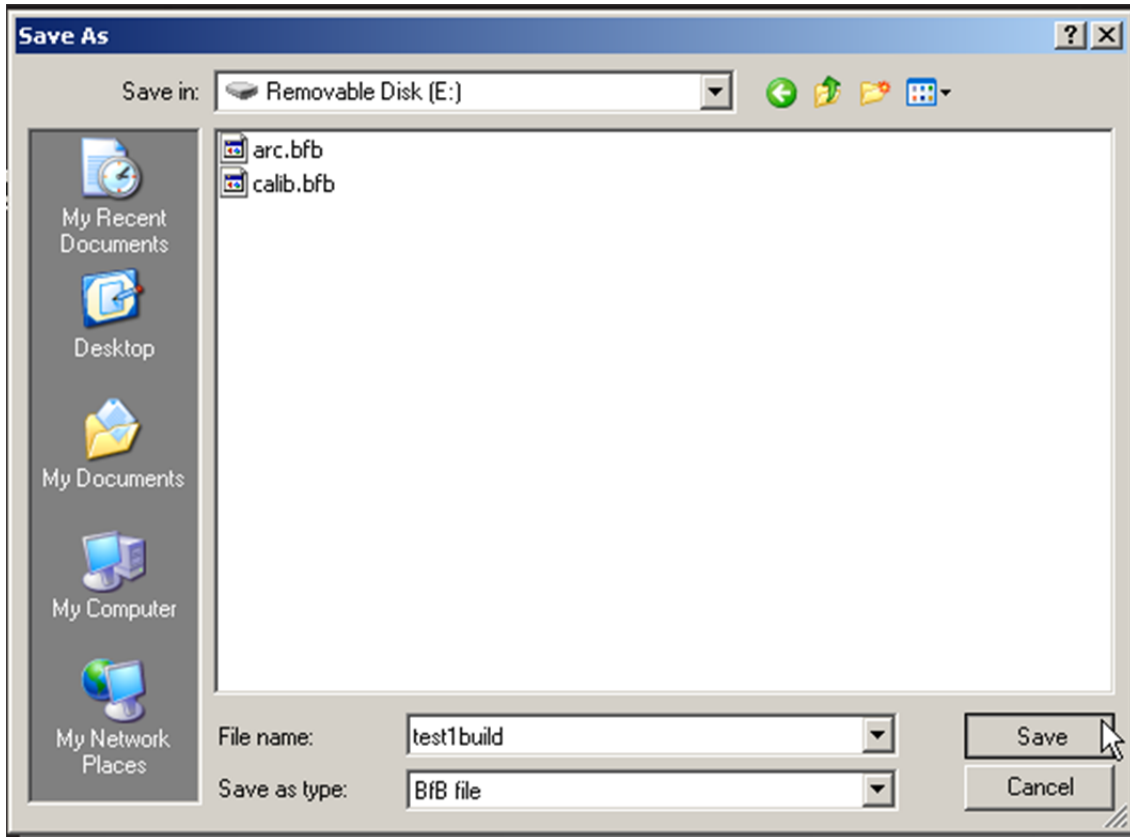


13. Now to download the build file to the SD Card click **Download to SD Card:**  
**(Make sure that SD Card USB stick and memory card are actually inserted into a USB Port).**

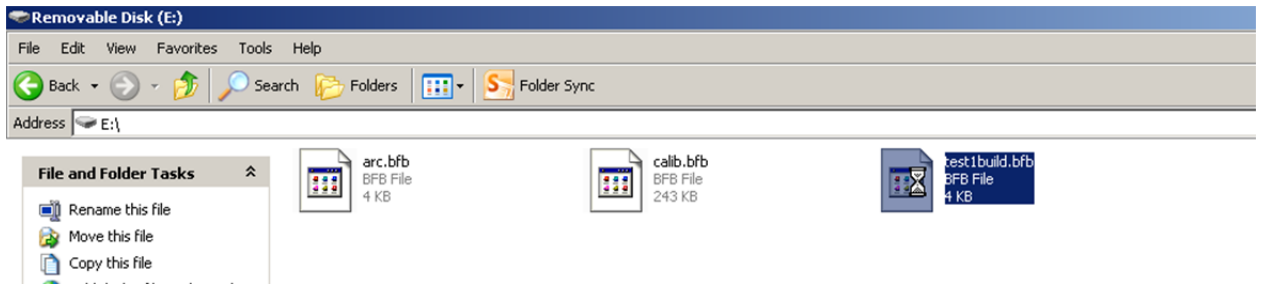


14. Select the Removable SD Card storage space, and then store the file with a unique name in the root folder of the SD Card:





15. Now check the SD Card Folder by using my computer and ensure that the file is in the location you just selected to save to:



16. You may now exit the Bfb Axon program:



17. Use the safely remove hardware tool (from that taskbar)



18. Stop the SD Card device:





19. You will shortly see a prompt that says it is safe to remove the device, do so.

20. Now you may load the SD card into the 3D Printing machine and use the build files off of it.