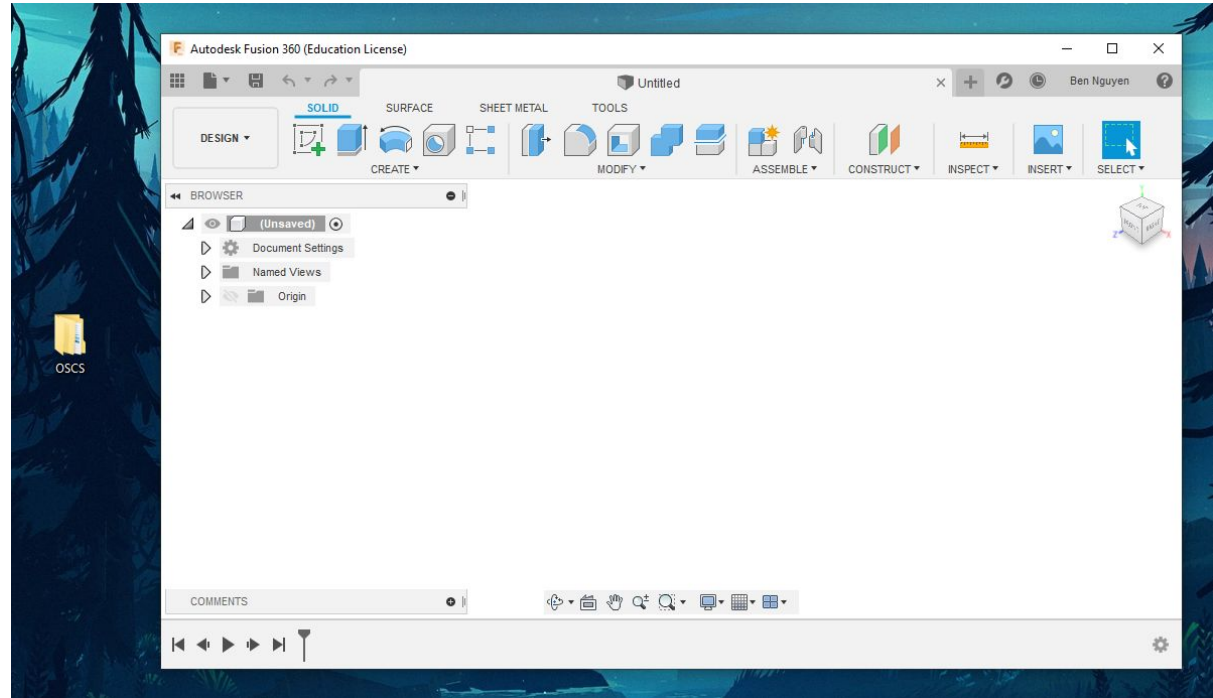


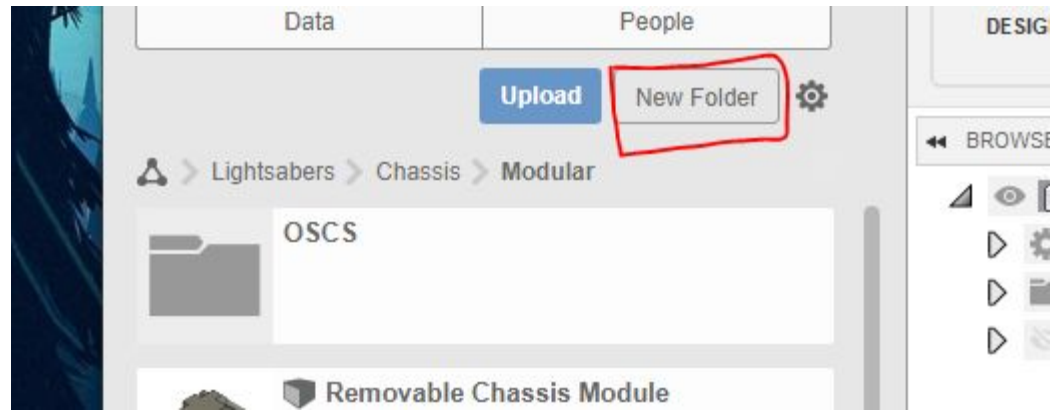
# Exporting Instructions

OSCS tbenen

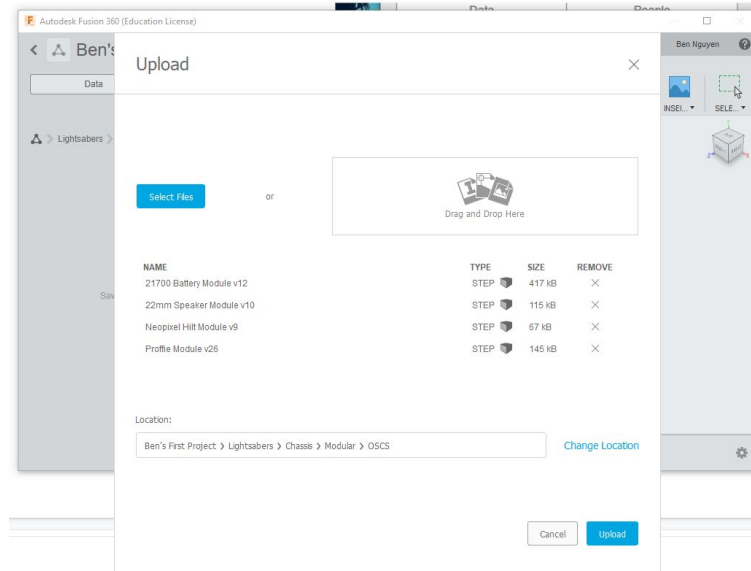
Download both the OSCS folder and  
Fusion 360

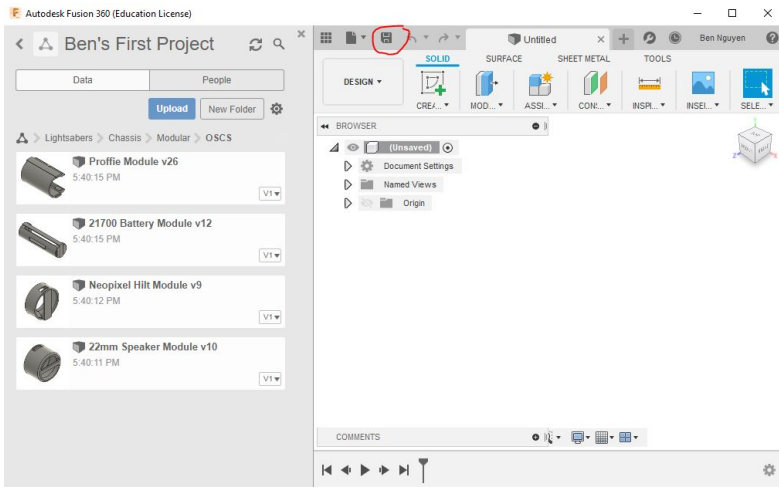


Create a new folder titled OSCS

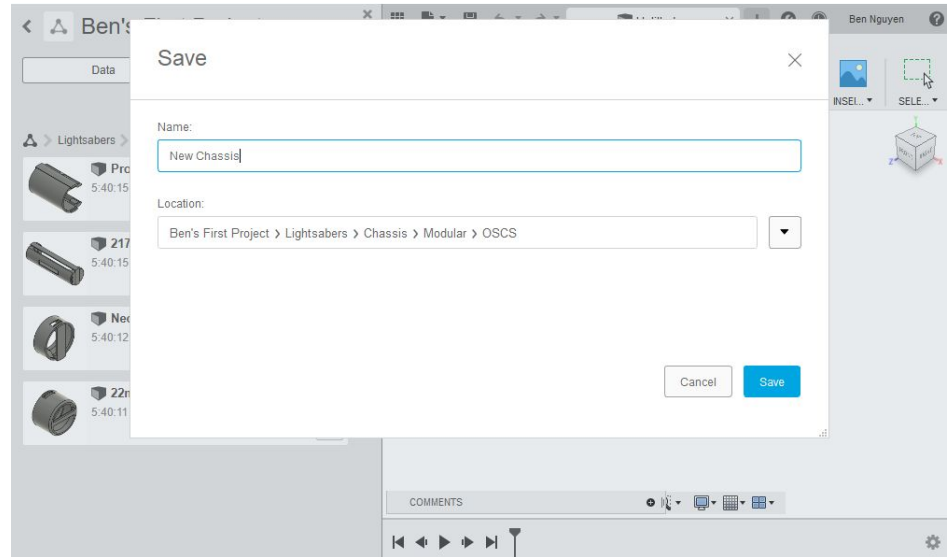


Upload all the necessary modules for your chassis in the folder



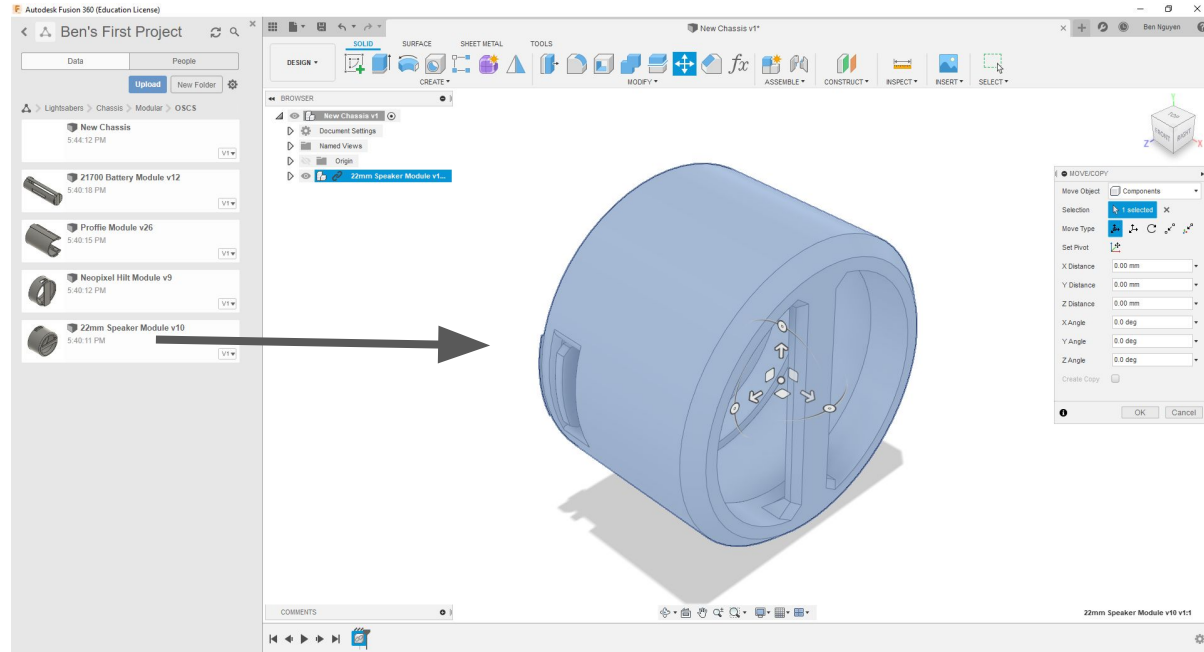


After all the uploads finish, create a new file and save it. Fusion 360 automatically opens a new document on starting the program, so you can use that.



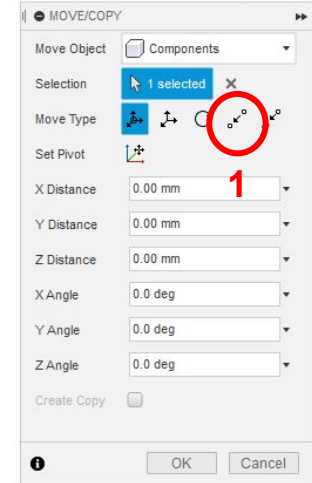
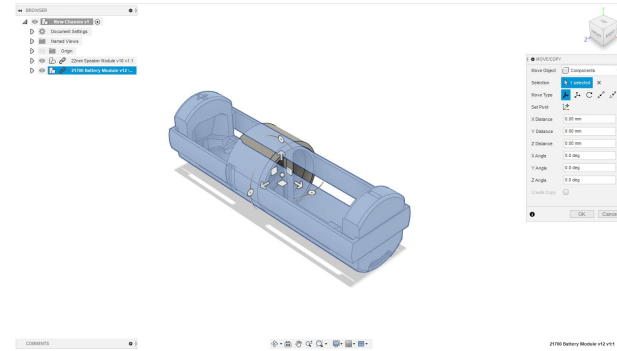
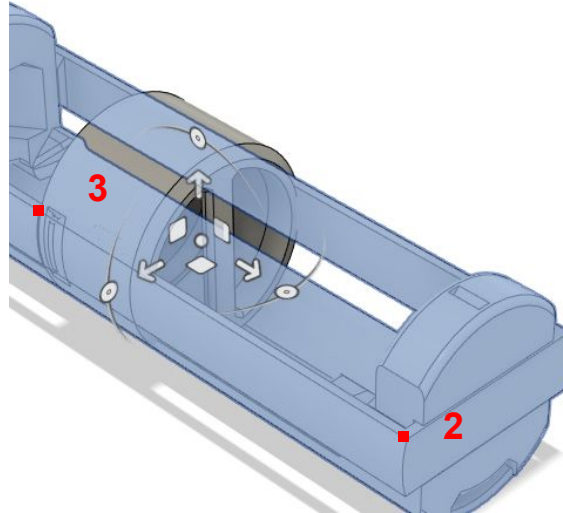
Drag and drop your speaker module into the new file. It does not need to be moved, as it will act as the starting point to the rest of the chassis.

Press OK

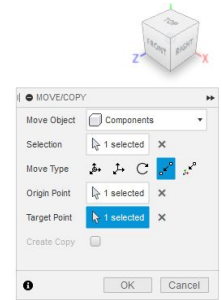
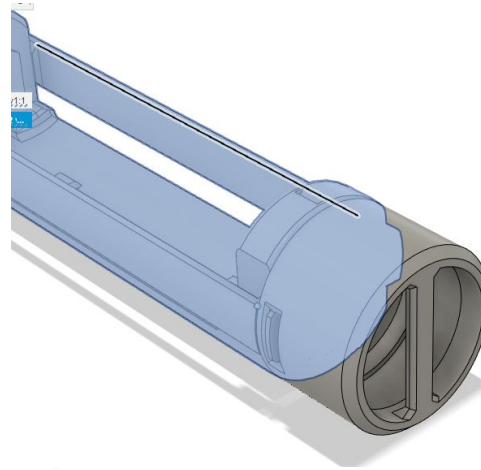


Drag and drop the next module into the file. Use the move tools to position it end to end with the previous module so that they can be combined later into one piece. This can be done easily with the Point to Point move tool.

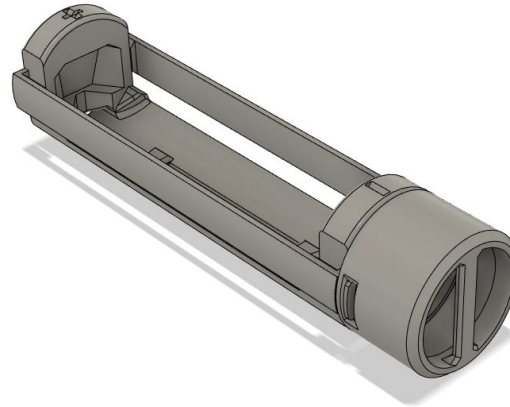
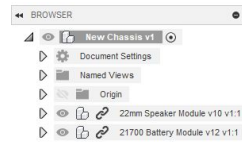
Click the point to point tool, then the corner of the rail (2), then the corner of the speaker rail (3).



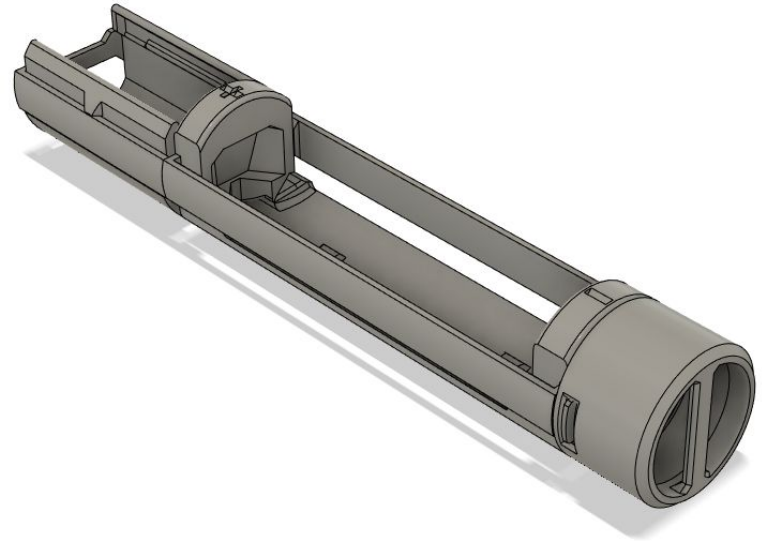
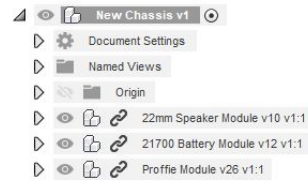
It should look like this:



Press OK



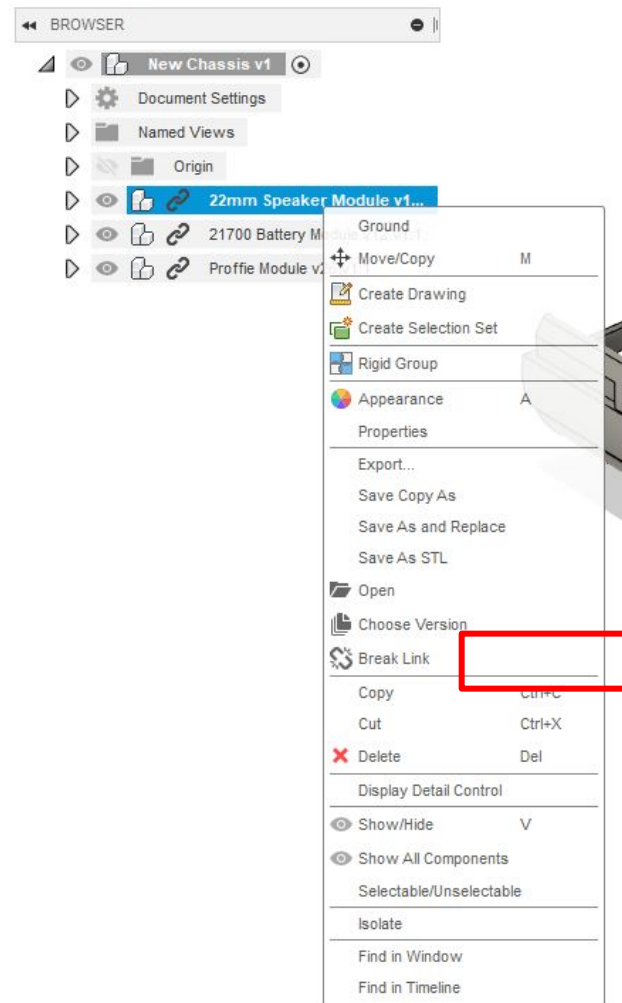
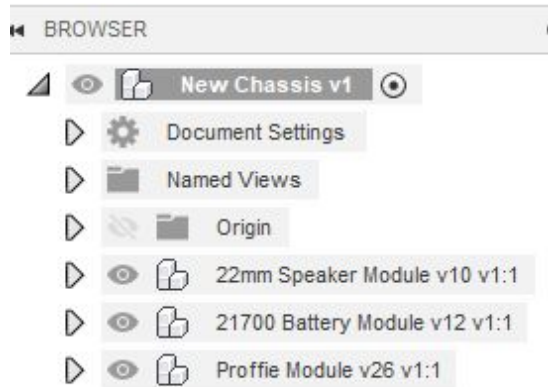
Repeat with the rest of the modules.  
My chassis in this example has a  
22mm speaker, a 21700 battery  
cradle, and a Proffie cradle.





Break Link for each module by right clicking each link icon and choosing Break Link.

It'll look like this:

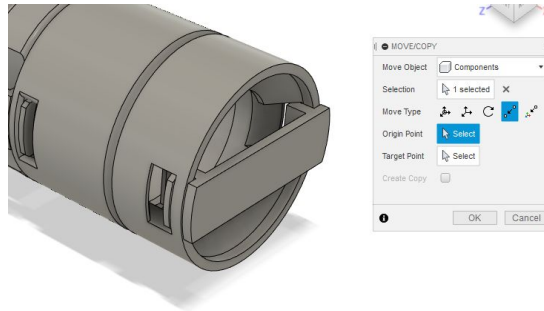
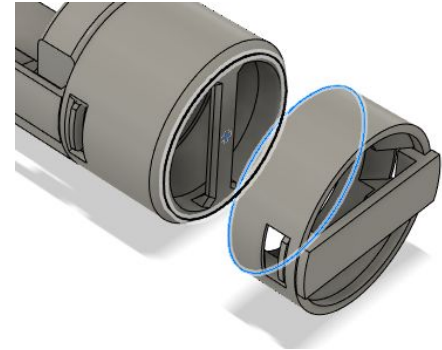
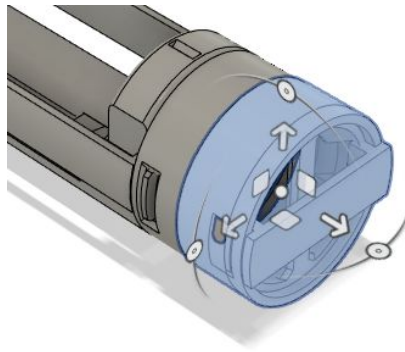


## Adding extensions

Skip to slide 15 if your chassis is only made out of pre-modeled components and is only one part.

Insert the other necessary components into the design. Move the longest module to the base of the speaker using the draggable arrows and/or the point to point tool.

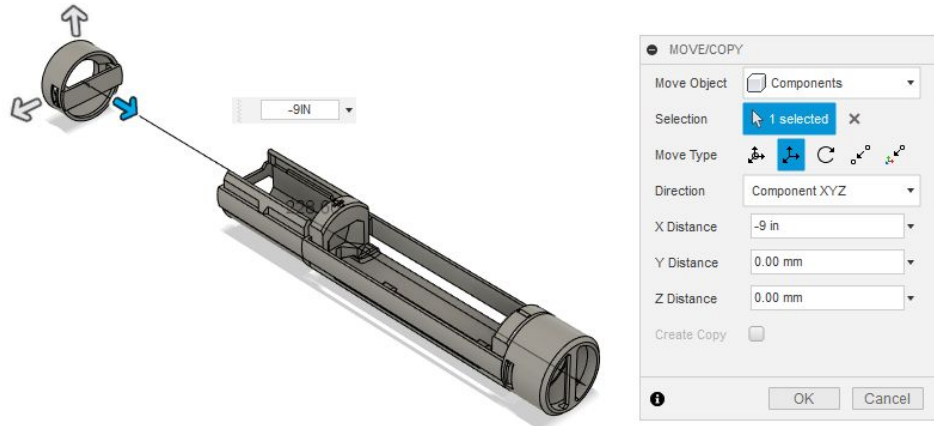
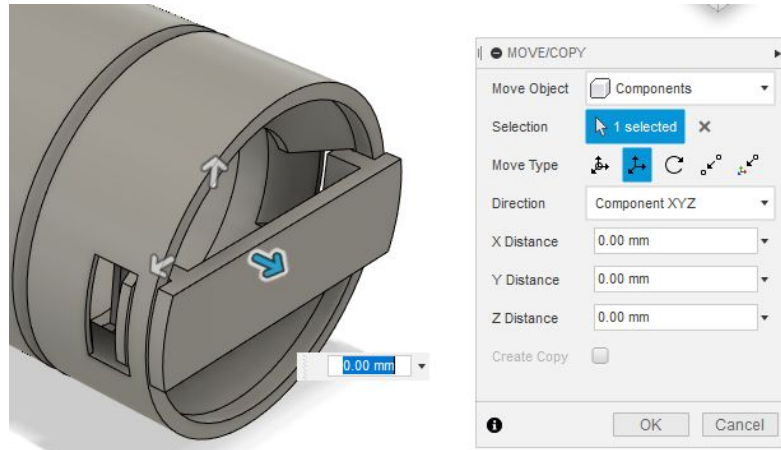
Do not press OK



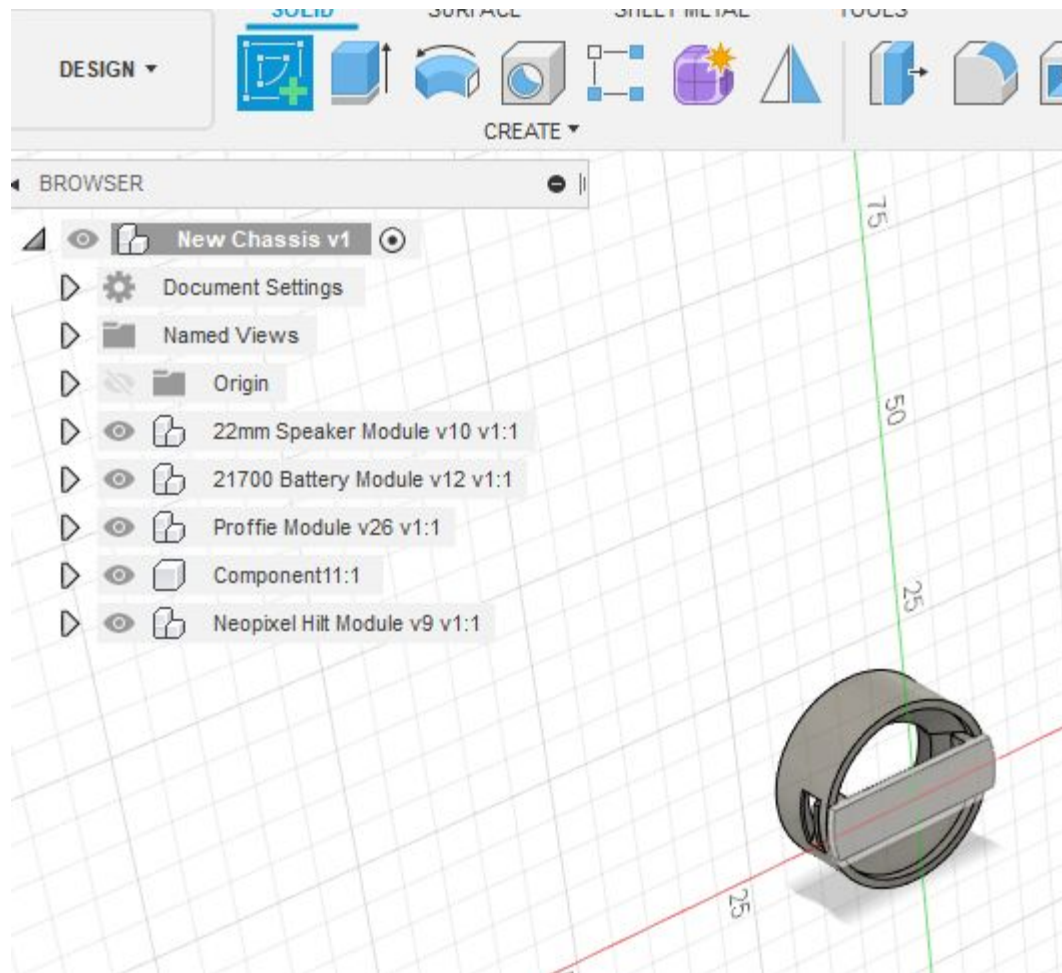
Click on the Translate tool, then the arrow that faces right. Type in the total length of your chassis as a negative number.

For example, this chassis will go in an 11in saber that has a 2in blade well. The total length is 9in, I type -9in into the highlighted box.

INCLUDE UNITS WHEN INPUTTING INCHES



Break the link for the new module,  
then start a sketch on the back face  
using the Create Sketch tool under the  
Create tab.



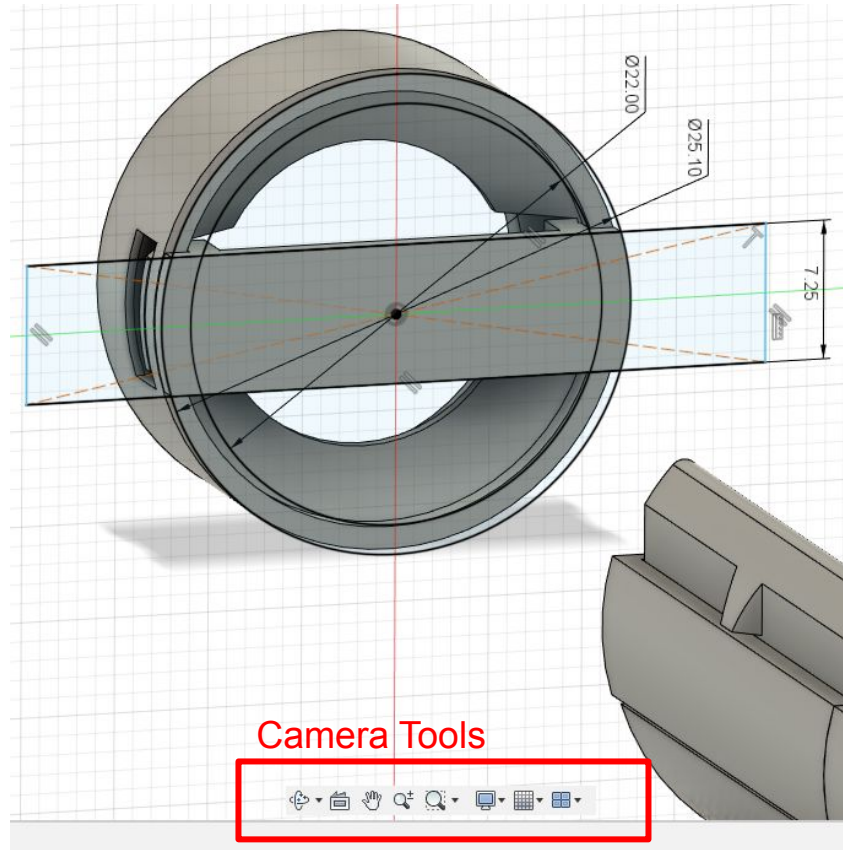
Create two circles: 25.1mm, 22mm

Create a rectangle with the Center Rectangle tool that's 7.25mm tall. The center of the rectangle should be the center of the circles. The length of the rectangle should be longer than 25.1mm.

You can pan and orbit using the tools at the bottom.

The sketch should look like this:

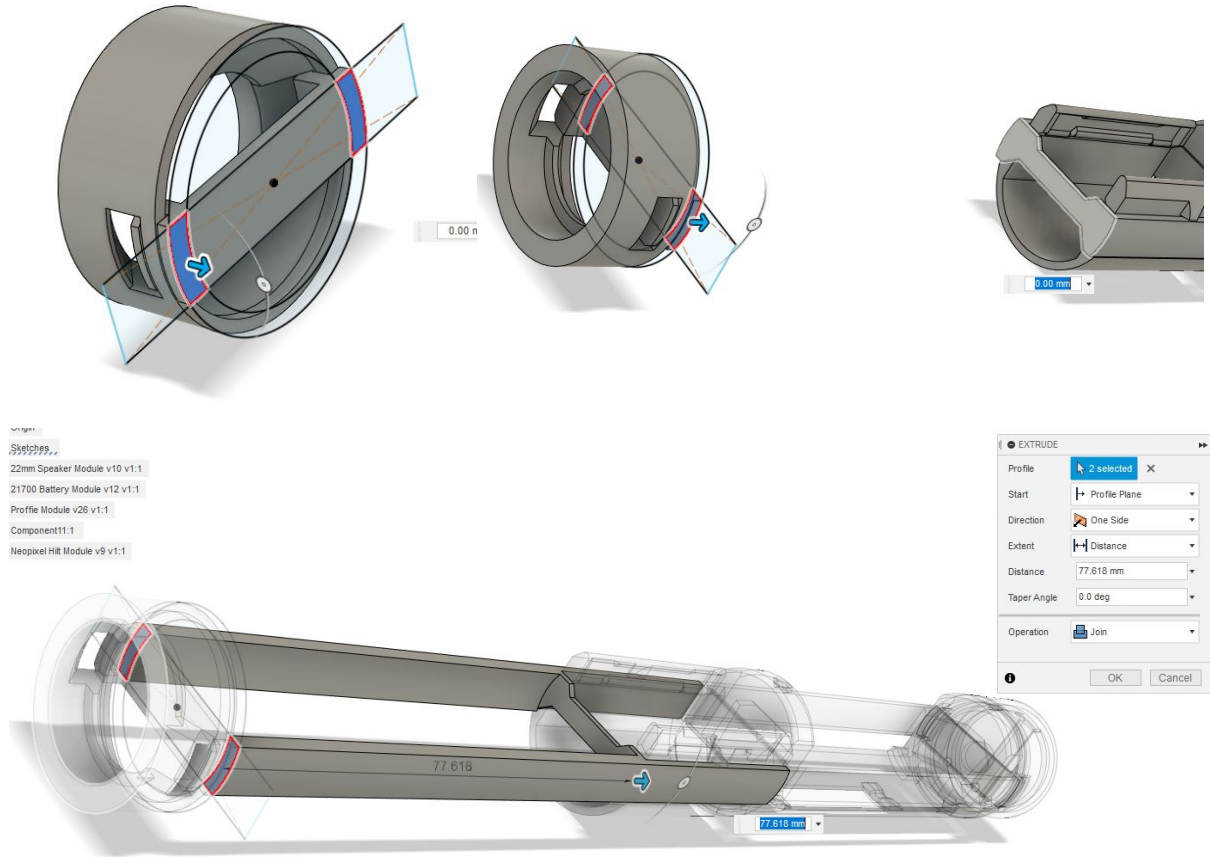
Finish the sketch using the green button in the top right of the screen.



Click Extrude, next to the create sketch button. Select the two profiles shown inside your sketch. Then, click on the nearest face of the rail module.

The Proffie cradle is the next nearest part, so I click on the front face of the rails for that module (highlighted white in the picture).

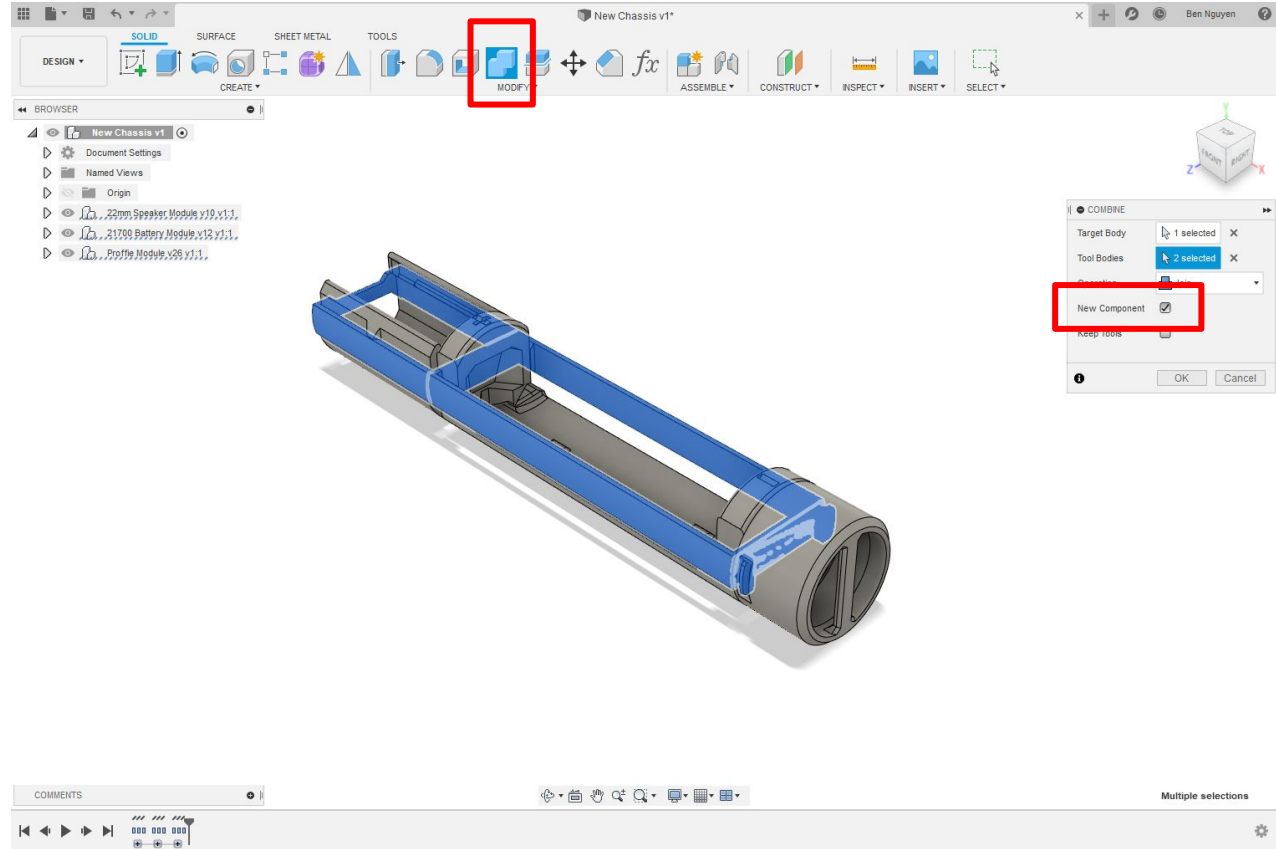
Press OK



Use the Combine tool under the Modify tab to combine all the rails of each module together. This is done by clicking on all of them until the rails for every module is highlighted, then pressing OK.

Note: Speaker rails may be hard to click on. They're the little hooks on the side of the housing.

Be sure to click on the New Component box





If you added an extension, this is what it might look like:

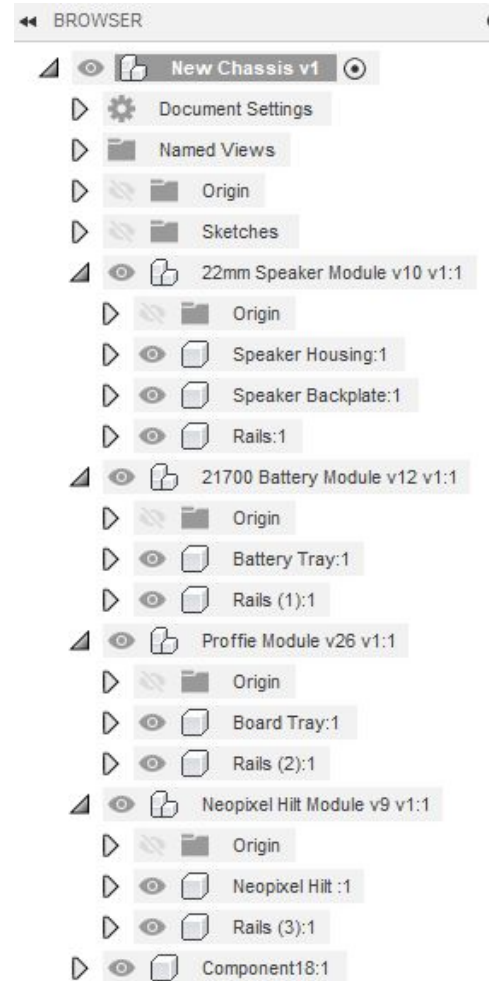
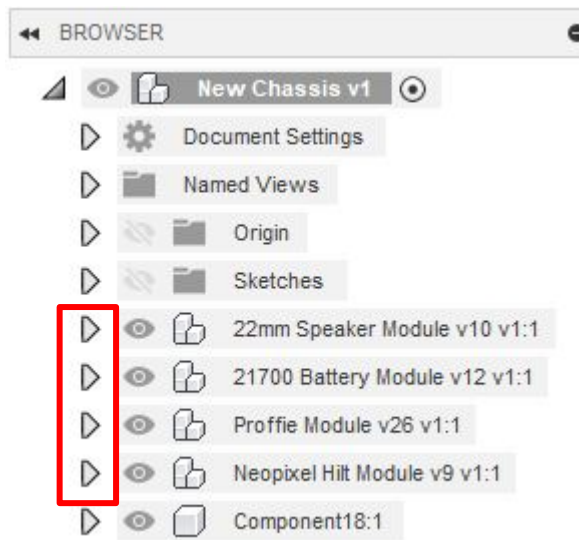


Note: If you use the Removable chassis module in extensions, you'll have two sets of rails. Do this step for each of them.



By now, your chassis should be complete and ready to export.

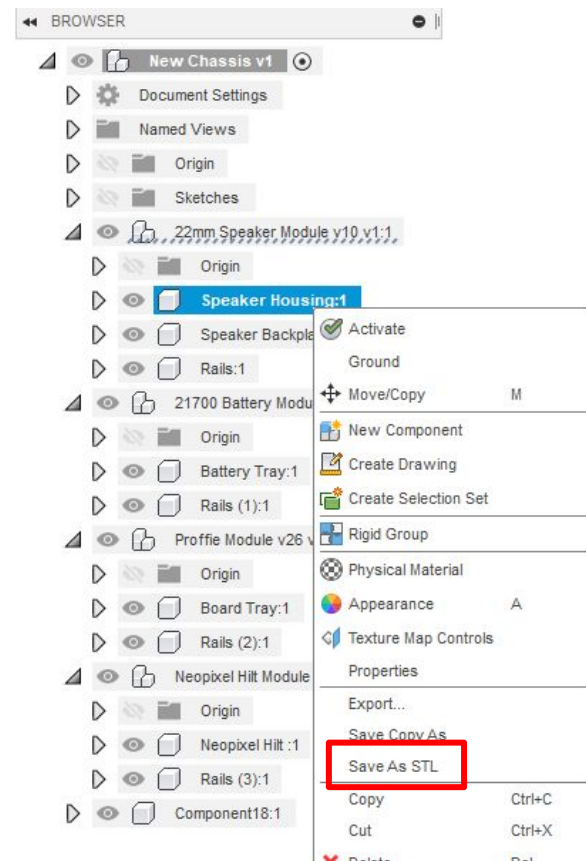
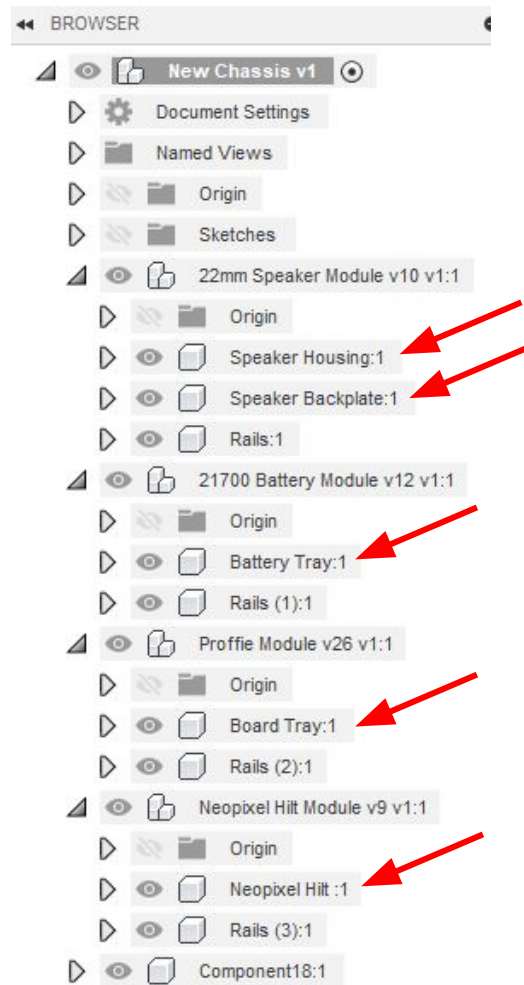
Go to the browser and click the arrows next to your components to show their drop down menus.



Each module has at least two components: a cradle or holder and a set of rails. Every part other than the rails should be exported as an stl.

For example, the speaker module has the housing, backplate, and rails. The housing and backplate should be exported as stl files.

This is done by right clicking on the name, selecting Save as STL, pressing okay on the right, then exporting to a known file location to be 3D printed later.



The last component is the combined rails. It should also be exported to an stl file for printing.

In total, I had 6 parts to print for this chassis with the extension.

