

Mr. Barbetta's *"I don't care about 3D Printing. I just want the art credit."* class

Confuse a Future Archeologist

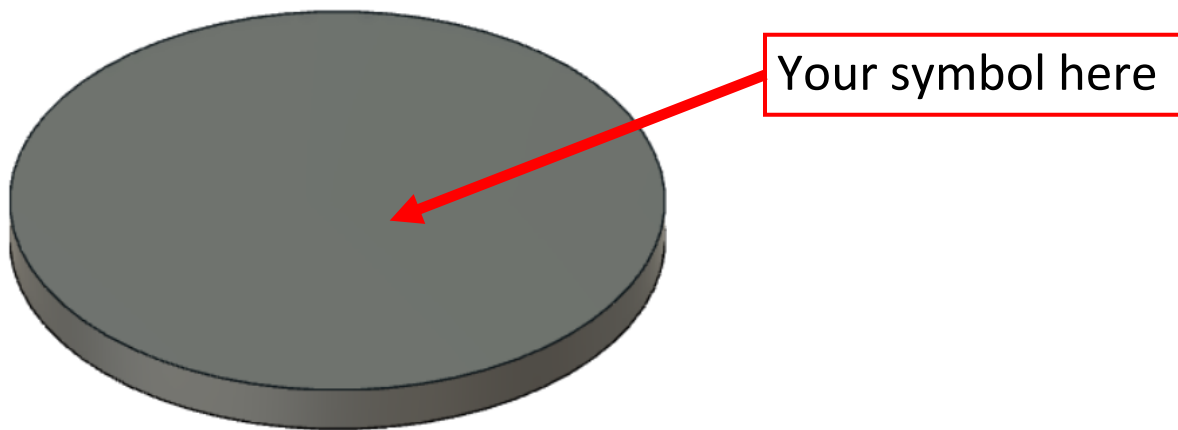
You will create a unique symbol on a disk that will be 3D printed. Your disk, along with that from hundreds of other students, will be printed and **buried somewhere in Bergen County**.

Thousands of years from now, when our civilization has long been gone, this hoard of symbols could be undug by an archeologist and hailed as a **discovery of an unknown civilization**.

Your symbol must not resemble a written symbol from any present writing system or ancient writing system. There should be no Cuneiform, Egyptian hieroglyphs, Maya script, Sanskrit, etc.



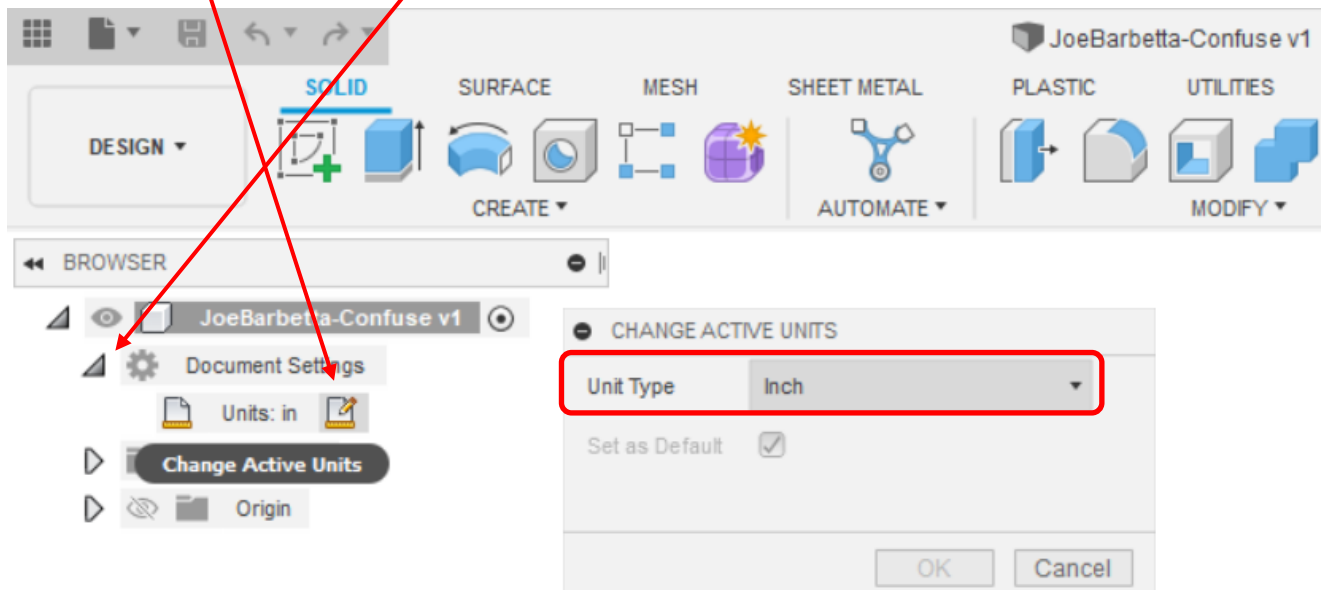
Do a good job. Your symbol may find itself in a museum thousands of years from now.



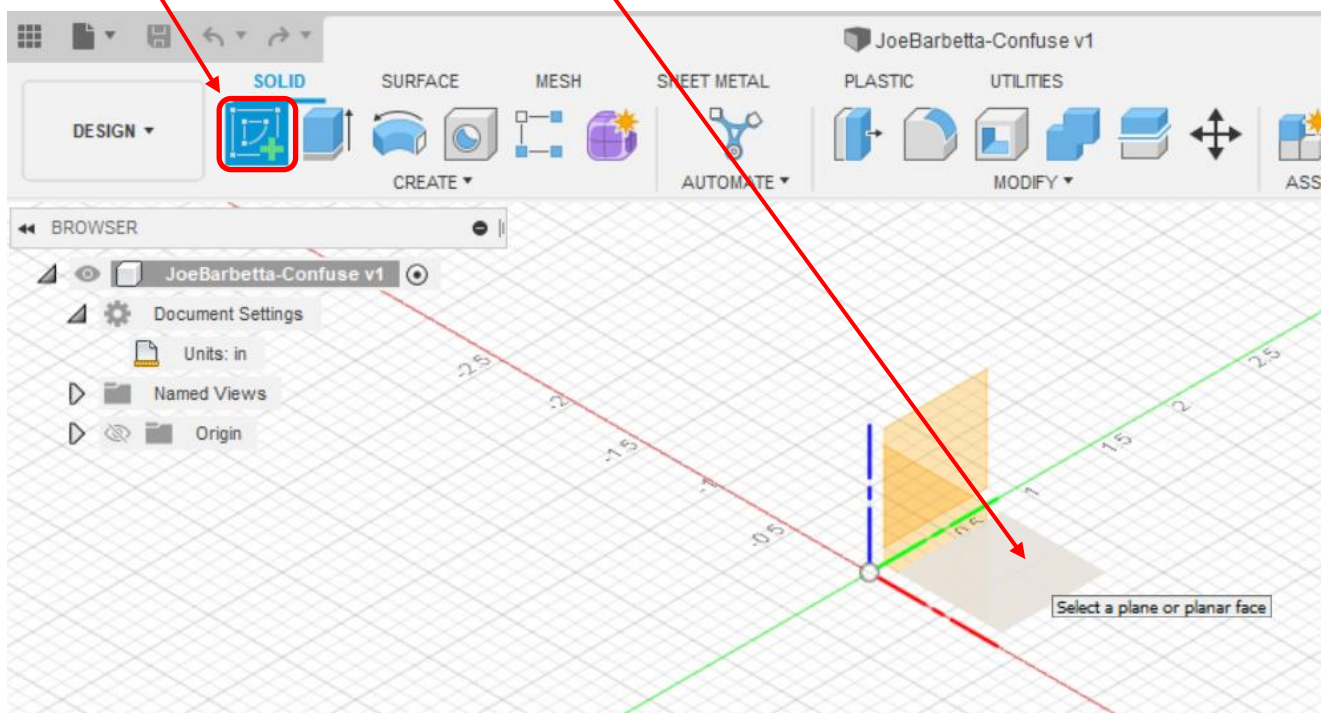
Detailed instructions follow.

- open **Fusion**
- from top **File** icon select **Save** and name the file.
Use your name followed by **_Confuse** e.g. **JoeBarbetta_ Confuse** (note the use of the underscore)

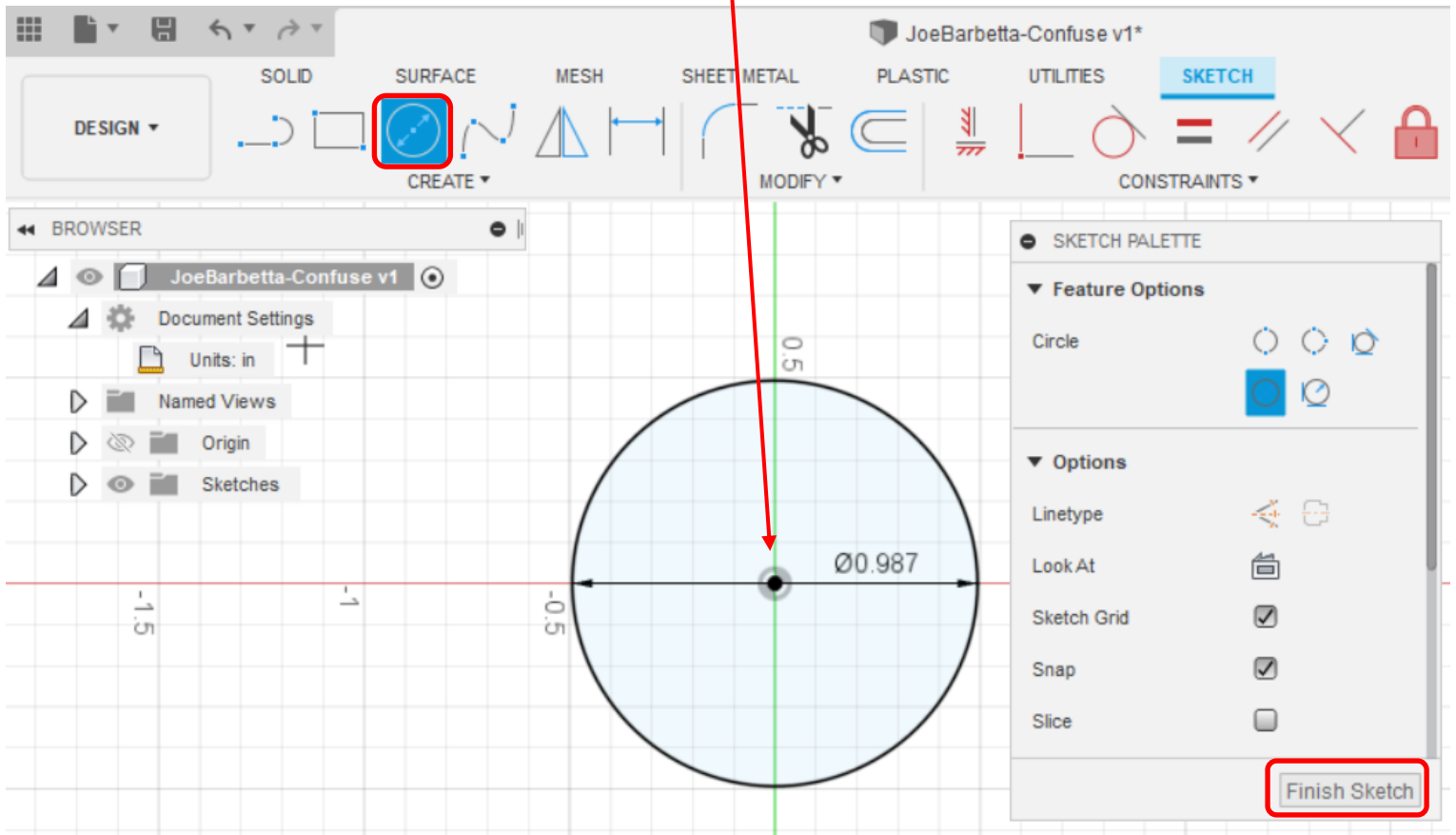
- in the left "**BROWSER**" click on the **arrow next to Document Settings**
- click on the **edit icon** that appears to the left when you hover over **Units**
- change **Unit Type** to **Inch** and click **OK**



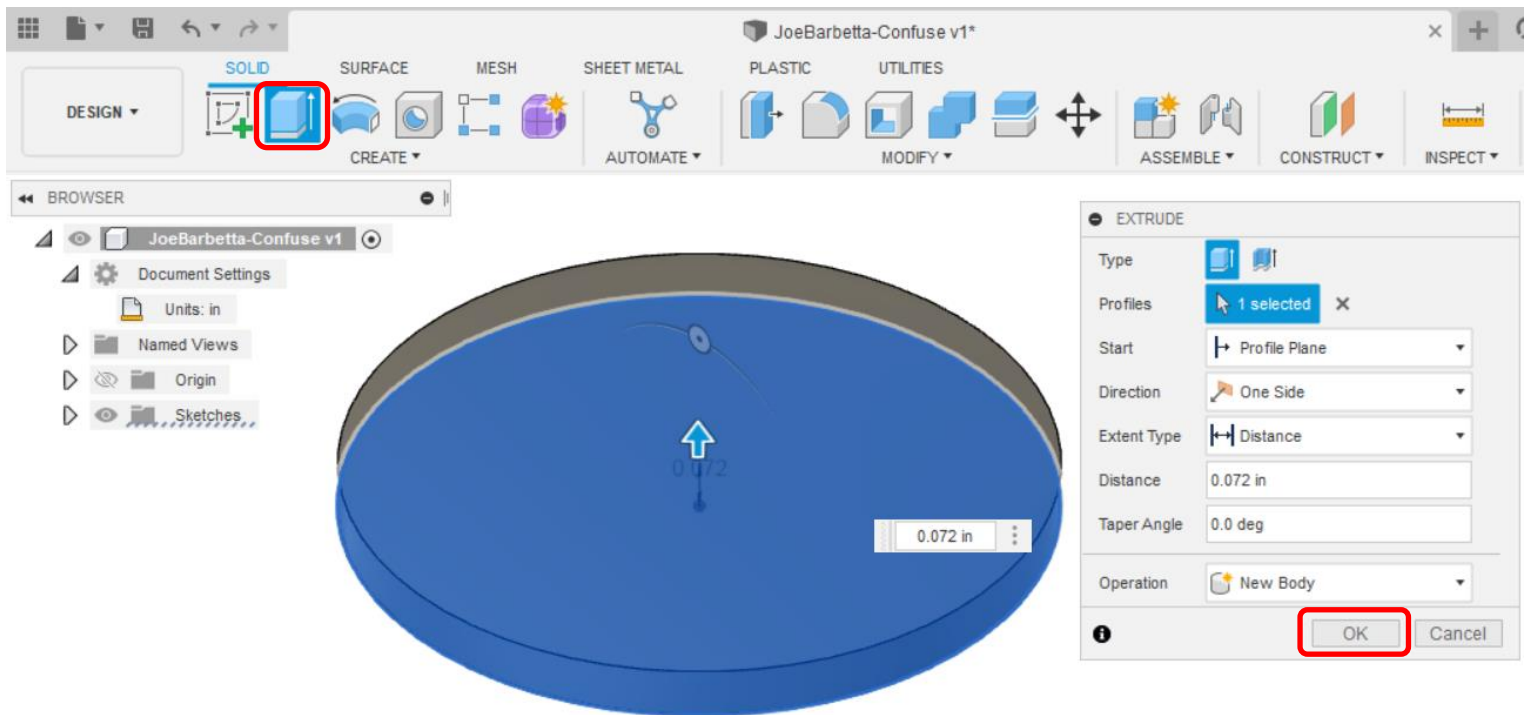
- select **Start Sketch** and then click on the **bottom rhombus**



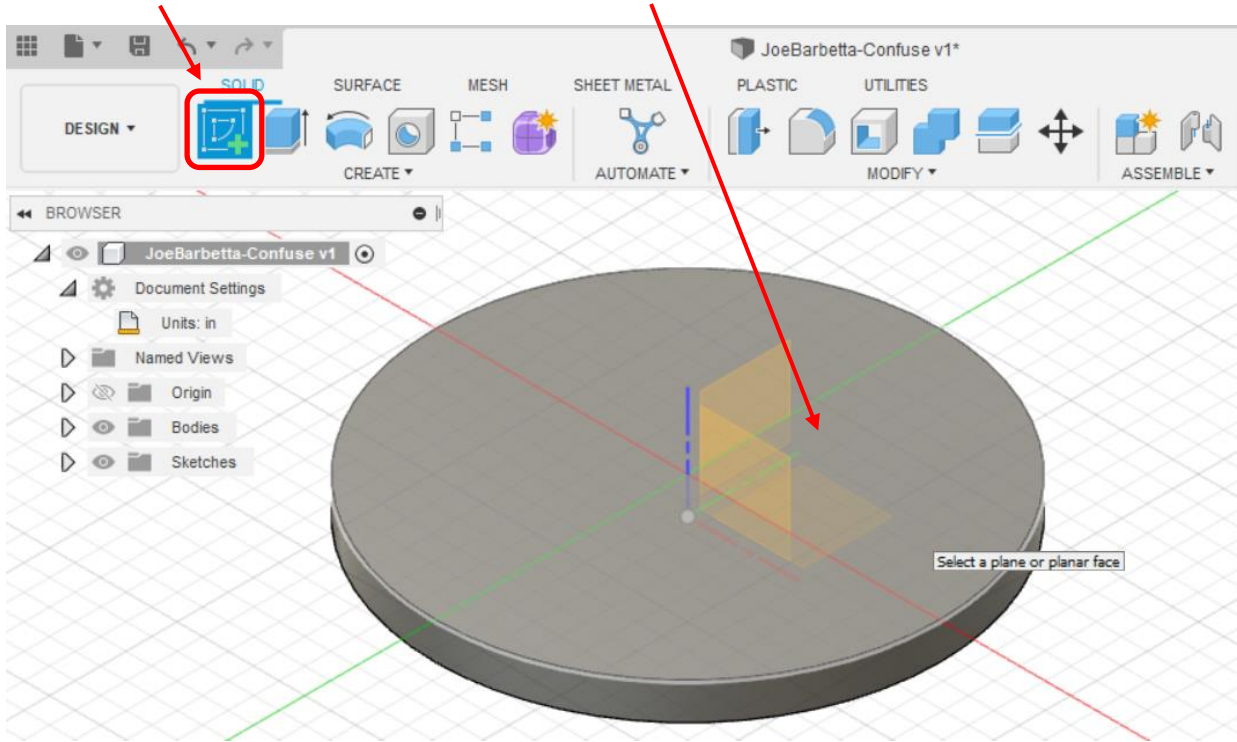
- select the **Circle** tool and create a circle by clicking on the **axis origin**, enter **0.987**, and then click **Finish Sketch**



- select the **Extrude** tool, enter **0.072**, and click **OK**



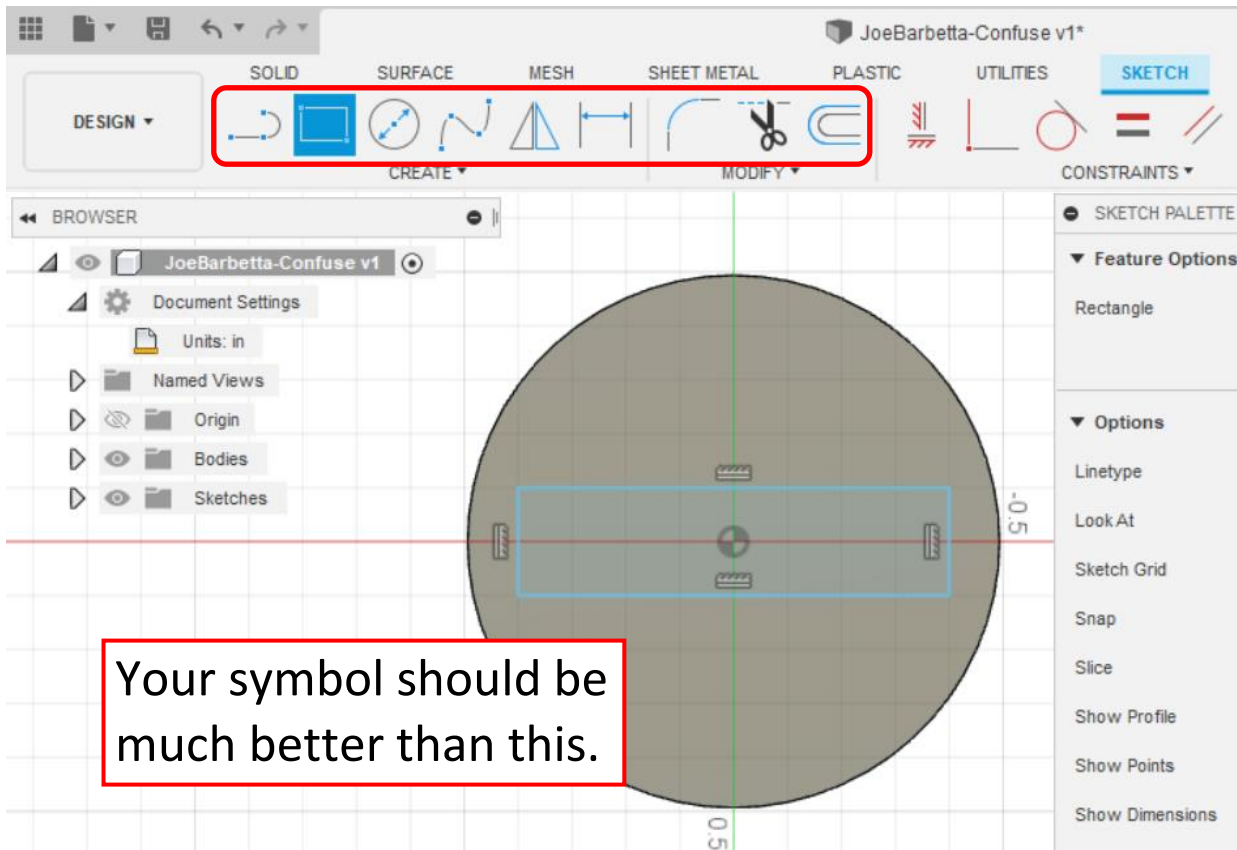
- select **Start Sketch** again and then click on the **top face of the disk**



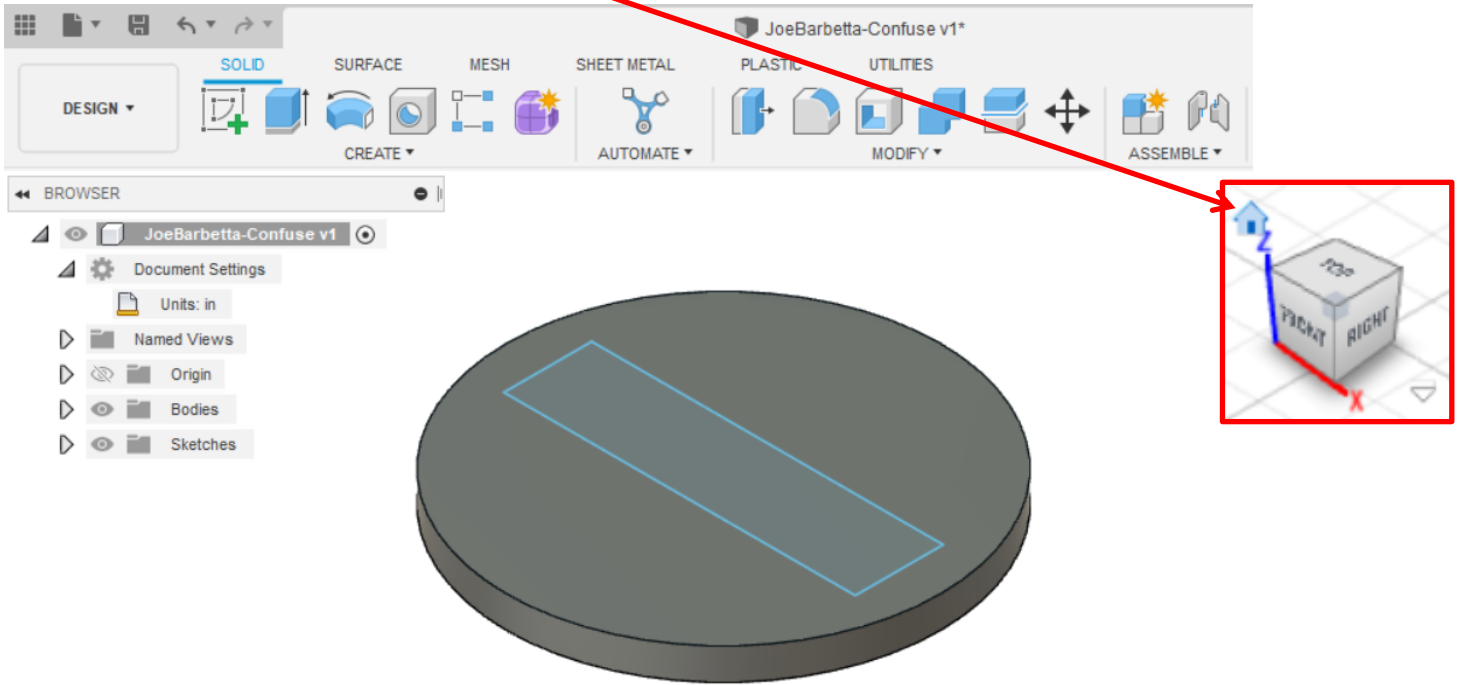
Let your imagination run wild and utilize the rich repertoire of Sketch tools to create your masterpiece that may be part of a museum exhibit thousands of years from now.

Your symbol should be almost as large as the disk and avoid tiny features that may not extrude. Any section less than 0.04" wide may not extrude.

Do not click Finish Sketch until your design is complete.

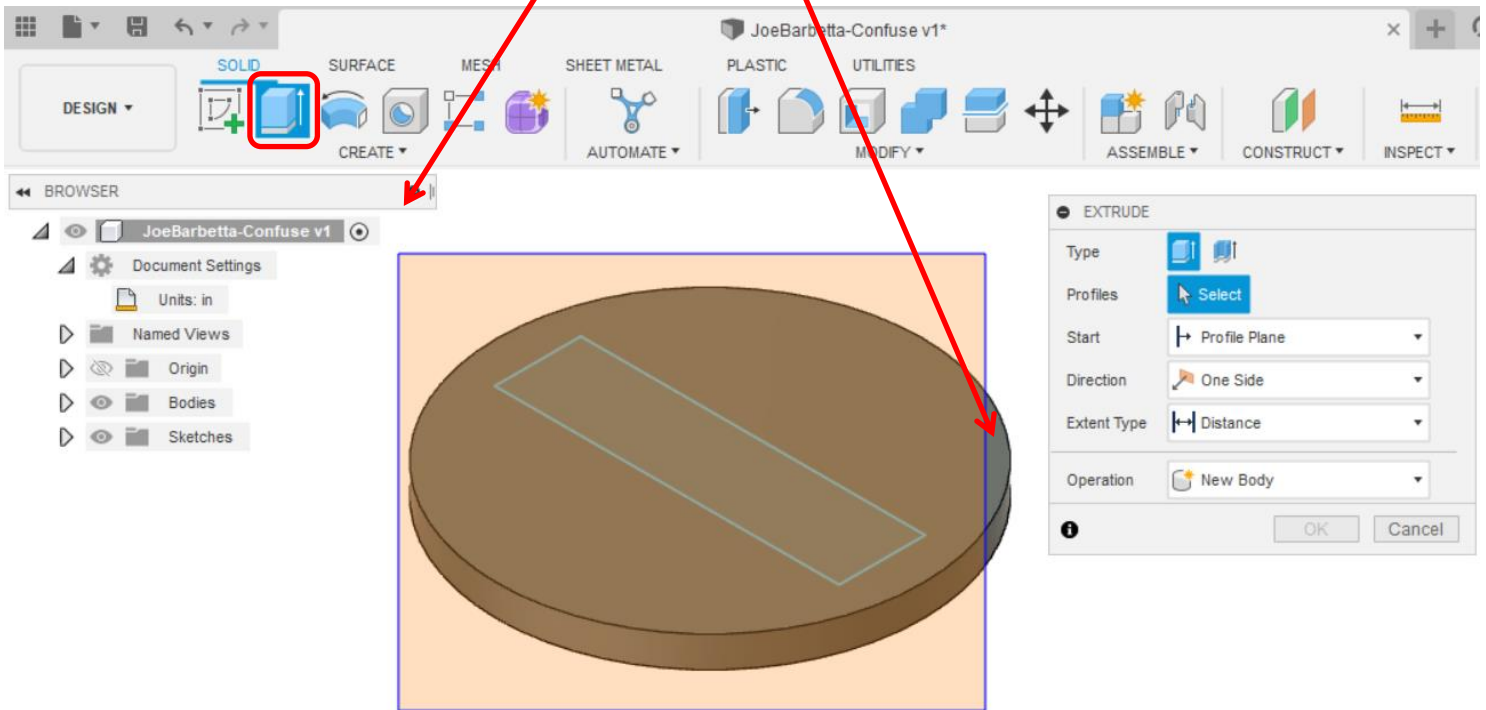


- click on the **Home** icon at the **View Cube**



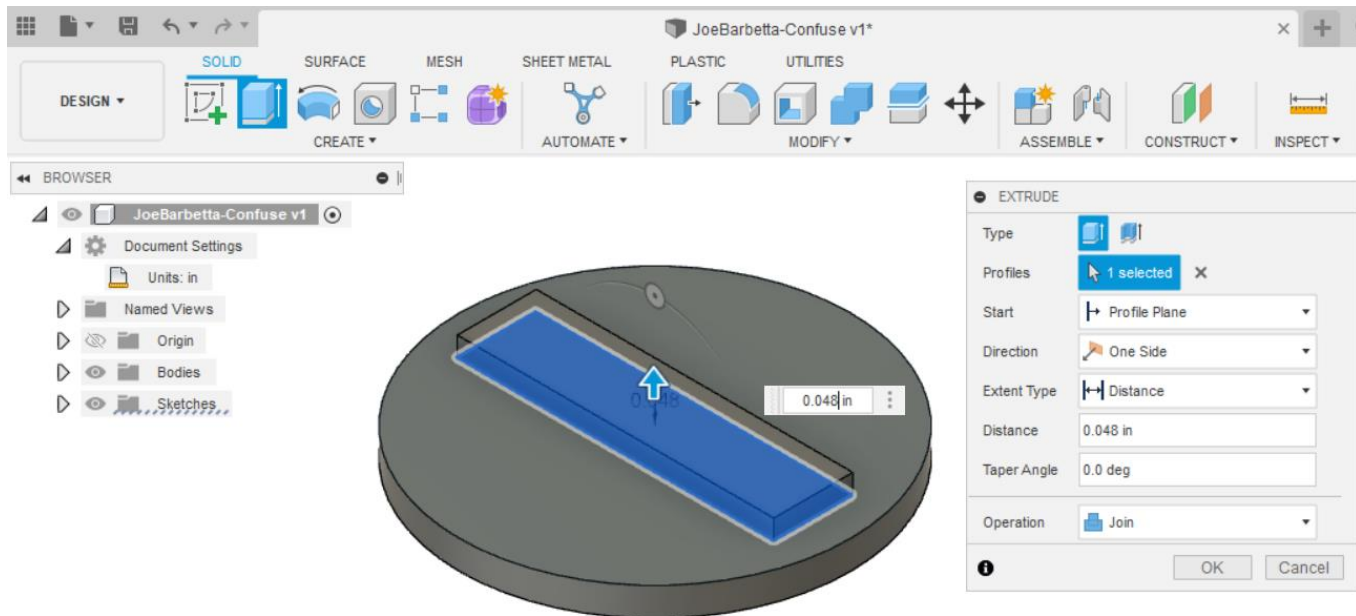
- select the **Extrude** tool

- select all the Sketch objects by clicking on a point above and to the left of the disk and then extending the selection rectangle to a point so that only a small portion of the disk surface is not selected. This will allow only the Sketch objects to be extruded.



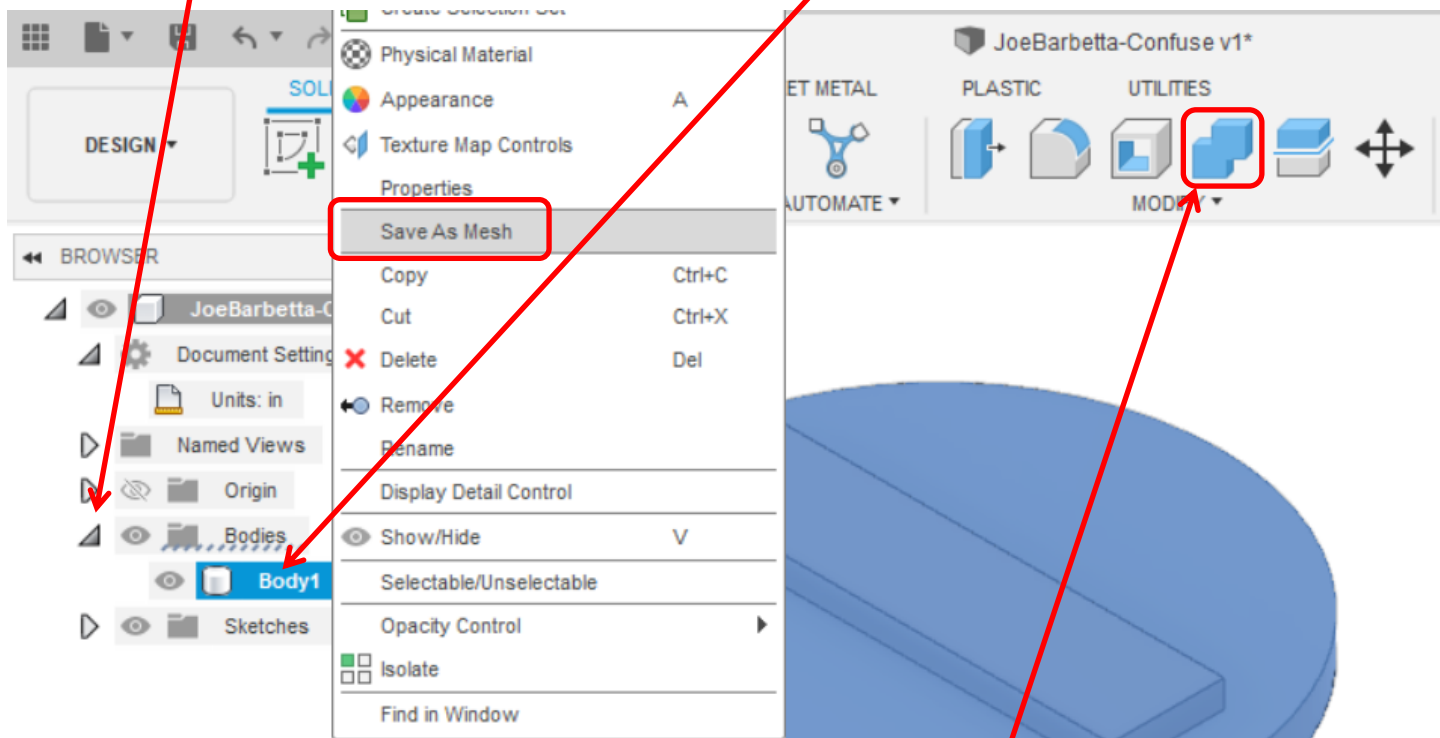
Select sketch profiles or planar faces to extrude.

- enter **0.048** and click **OK**



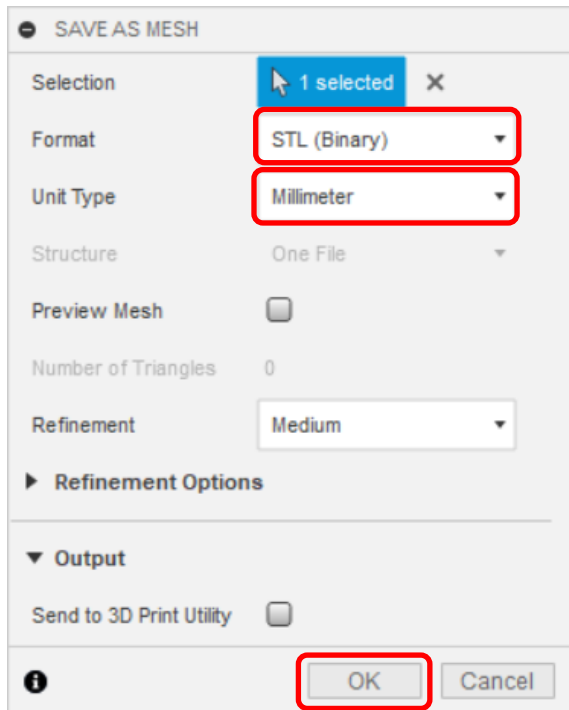
Creating an STL File

- click on the **arrow next to the Bodies folder**. Then right-click on **Body1** and select **Save As Mesh**.



If you have more than one body, hold the Shift key and click on each body. Then click on the Combine tool and click OK. You should now have a single body that can be Saved as a Mesh.

- ensure that **Format** is **STL (Binary)** and **Unit Type** is **Millimeter**. Click **OK**.



- change the **File name** to your name followed by a dash and the word Symbol, e.g. **JoeBarbetta-Symbol**

- click **Save**

By default, the stl file will be saved to the **Downloads** folder on the computer.

