The goal of this assignment is to design and make some parts of splicing toy.

So, the first step is to design it. First, we design a part that have many slots, which means this part is used to be a connector, connecting other parts together.

白色的地图

描述已自动生成图片包含 游戏机, 白色, 空地

描述已自动生成 First, we draw a large circle, then we draw a slot, then we copy it, and rotate it for 45°, then we choose two slots, and rotate it for 90°, and choose four slots and rotate it for 180°. Finally, we have 8 slots.

After that, we can use tool in Fusion to make the edge of slots be round. And also, we can draw a litter circle in center to let this part have a small hole.

Another part is a 90° corner. The way to design it is similar to design the first part. But one important thing is, must make sure the slots in both parts are identical (at least, slots should have same width).

手机屏幕截图

描述已自动生成 After finish design, we should save drafts in Fusion 360 as .dxf file. Right click on the draft and choose “save as .dxf”. Then we get .dxf file which can be used for laser cutting.

When I use laser cuter, the machine didn’t work well, which means I have to use more powerful parameters to cut the wooden board. This time, I use power 90 and speed 3.0.

Pictures below is what I finally made.

图片包含 室内, 桌子, 自行车, 木

描述已自动生成图片包含 室内, 桌子, 建筑, 白色

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