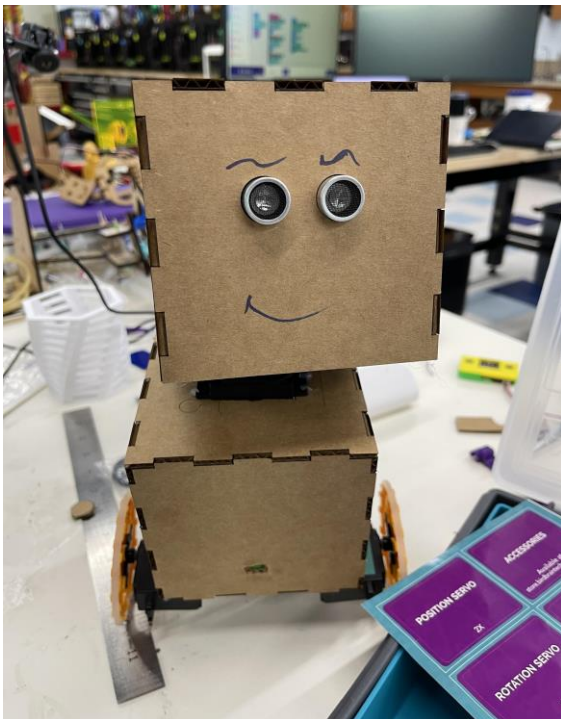


# ELBY THE ROBOT

- Materials Needed
- Age Group

This is a fun project and you should definitely try it. We are inspired by the [Little Bot](#) and the [Rover](#) from birdbrain technologies. After reading those instructions you may see our [photo album](#) for the Innovation Dept. version. You may also find the sample codes and other documents in this Google Drive [folder](#).



We used the maker case [website](#) to design 2 of 4x4x4 inch open boxes with the below settings, downloaded the plans, and cut them with Glowforge laser. Since the hummingbird and the microbit [did not fit](#) the bottom box in our version we tried a 6x6x6 version for the bottom piece but the design files did not fit into Glowforge all at once. If you have a larger laser cutter you may try the 6x6x6 version.

Units

Width  
 in

Height  
 in

Depth  
 in

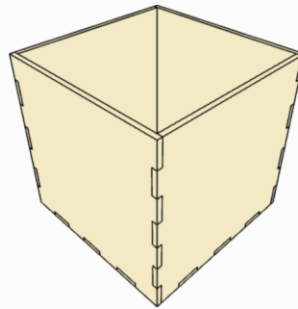
Are these inside or outside dimensions?

Material Thickness

Open or closed box?

Edge Joints

Finger Size



Drag to Rotate

Scroll to Zoom

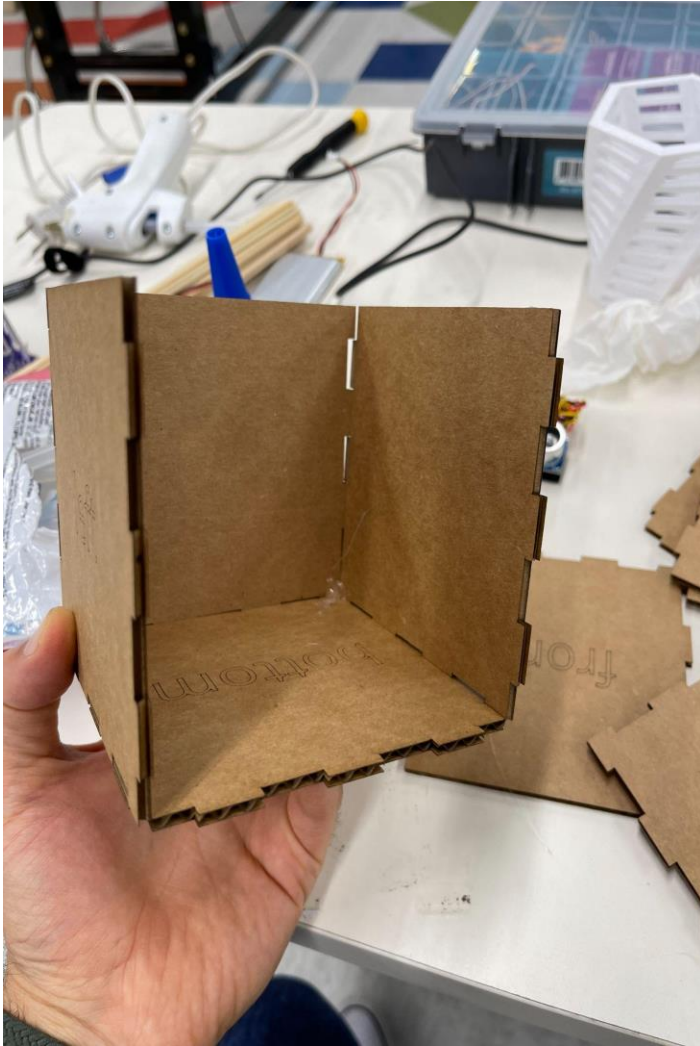
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Looking for the old version of MakerCase?

You may use your laser to cut the files from cardboard. It is important to enter the correct thickness on the designer. Otherwise, the finger joints would not fit well.



If you want to challenge your students you may ask them to modify the plans with the help of Adobe Illustrator. You can ask them to make openings for the distance sensor and the servo motors or draw a robot face to Elby. Using Illustrator is optional since you may use an x-acto knife to make the openings. Please follow safety guidelines while making cuts with blades.

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