

## What I learned

There were many lessons that the group learned as a whole such as how to use the pantorouter, epoxy wood pieces together, and learning from our mistakes. One of the most challenging parts about making a plywood frame is how there are alternating layers of plywood, therefore, you have to go slower using the pantorouter otherwise the wood might split. Also, it has taken us much longer than we were expecting to assemble this plywood frame since some of the group members haven't work with the wood rover. I've enjoyed teaching the guys how to use the pantorouter because it is has been a fun experience. We learned that the bit was forcing itself in a different direction than where we intended, so to move the bit away from yourself to prevent it.

We learned that while epoxying, it's much easier to mix small quantities of the two different bottles together since it is five minute epoxy. Therefore, it took us longer to fit the tenons into the mortises. Another thing we learned was to double check measurements even if you think they're correct. Don't solely rely on someone else to do it correctly because we all make mistakes. We made the same mistake as I did earlier in the year where I measured from the end of the piece of wood instead of placing the tape measure where the tenon perimeter is. I forgot to mention that to the person who was marking the beams and that's why we had to make many adjustments.

The group needed to be resourceful with the spare portions of 2x4 we had left. With the incorrect measurements for one of the holes to place the bolt through, it was marked in the wrong location, but we didn't have any 2x4s that were the same size. So we plugged the hole with the scrap we cut it from and then measured the correct placement.

