# CS 3630 Project 1

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# 1. What problems did you encounter?

There are four problems we encountered when we were assembling the Duckiebot.

Firstly, the skews are very small and it is especially hard to see them on the video. So when we were assembling the Duckiebot, we were sometimes unsure if we used the right one. In addition, there were two skews having different lengths of spaces on right and left end. We tested the spaces using the skews, but we still got one of them wrong when assembling it and had to re-do that part.

I also made a careless mistake by forgetting to bring our team's Duckiebot to the lab. My teammate and I had to hurry back to my dorm and get our Duckiebot. We wasted half an hour of our lab time, but I am glad we finished it before our lab session ended. After this, I would not forget to bring Duckiebot to lab sessions ever again.

Also, there was one motor having a wrong connecting part with the wire and preventing them from being securely attached to each other. The needles at the connecting part was bent and we used tools to straighten it.

Lastly, the small space left on Duckiebot for you to assembly some parts makes the process difficult. I remember it was quite hard to plug the wires in correct order through the space between the two boards.

# 2. What did you learn?

Firstly, I learnt never forget to bring our Duckiebot to lab again!

It was my first time assembling the Duckiebot and I felt I improved my practical skills. I learnt to be careful when assembling the parts and not break or lose anything. If we encounter a problem, do not panic and think about the solutions. For example, when we found out the connecting part of our motor was wrong, we got a toolbox and used tools to unbend the needles on the motor. Also, I learnt to ask about our concerns before assembling a part, so that we do not need to re-do it if we did it wrong.

In general, there were some issues, but we solved it and I really enjoyed assembling the Duckiebot.