



My overall design of my CO2 racer worked well, although my initial design changed drastically. The initial design consisted of fillet edges on the front and rear faces; the body had more of a curved hourglass shape to increase aerodynamics. The actual construction of my car did not go as planned. One big problem that really changed the performance of my car was that I didn't use balsa wood; I used a different type of wood that is heavier, and that ended up making my car slower. During the construction, I used the belt sander to shave off excess wood and I accidentally shaved too much wood off my car in certain areas. Other mishaps included: the drilling of the axle holes and overall body sanding. A device that would have been helpful in testing the aerodynamics of my car would be a wind tunnel. Another device I should have used, instead of the belt sander, would be the coping saw. If I used that tool more, I could have made more exact cuts in my car, and would not have to change my original design. Overall, my car was a success, but I could have made it better.

