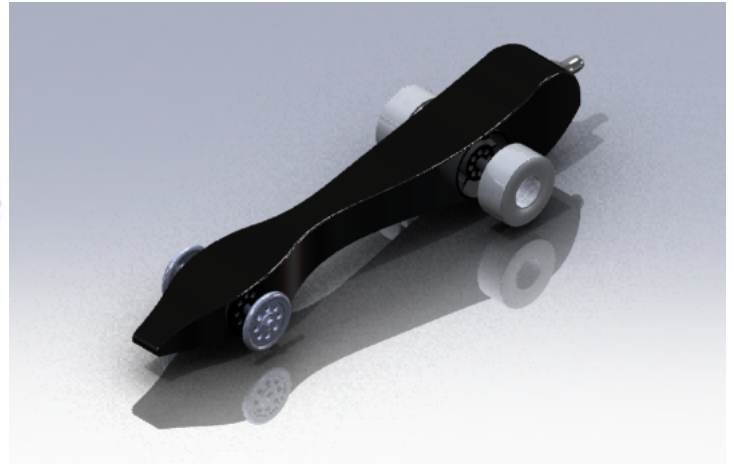


Ben Elsesser

Period 2



BDEENGINEERING



When designing my CO2 racer, I wanted it to look really nice and perform well at the same time. I learned from the Solidworks program that the best aerodynamic design for the front of a car is a rounded nose. I incorporated this feature into my design because it looks good and was slated to produce good results. In my original design, I had the rear end of the car flowing up to a point and it looked really cool but after running the aerodynamic tests and the speed tests I realized that that feature was holding the car back in terms of the speed and air flow. So I ended up rounding off the back end to increase the speed and make the air flow more naturally over the car. In terms of what I would have done with more time and tools, I would have been able to make the overall surface of the car more flat and more accurately cut out the shape of the car with tools better suited for the job and