2015 Mercedes G63 6x6

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**Pictures:**

**Figure 1:** This is the side view of the G63

**Figure 2:** This is the rear isometric view of the G63

**Figure 3:** This is the front isometric view of the G63
Figure 4: This is the dimensioned drawing of the assembly of the G63
Above is an image of the vehicle that I was basing my project off of. I picked this not by choice, but it ended up being a lot more fun and probably more interesting than if I went through with my original idea. I have always been very, very into cars. More specifically, I have always been into very expensive, impressive vehicles. A perfect example is the one pictured above. Coming in at around $600,000, it is not a cheap car. There are many reasons for this, aside from the outstanding off-road capabilities, that little emblem on the front of the car adds a good amount of value to the car.

To start off the project, I created a sketch of the side view of the truck. Then, I extruded this. After that, I started making the hood. I did this with a loft. Then I created the trunk with an extruded cut. Next I created another part created the wheels. This was the most complicated part of the entire project. Mostly because of the tread on the tire. I did this using a circular sketch pattern. This is one of two new things I used to make this car. The other new thing I used was the mirror feature. I also learned how to effectively create a plane on any given angle to make a sketch where you need it. After I completed the wheels, I created a simple underside axis system so I had a place to attach the tires. After I completed that, I cut out the inside of the car, and created the windows with thin pieces of glass. Then, I cut out the door lines, and created the rear view mirrors. The rear view mirrors were tricky because there were so many curves. I did this using several planes with extruded cuts and extrusions. Lastly, I made the grill with the headlights. This was probably the second hardest part of the project. I made the grill pattern using a linear sketch pattern with many arcs. Then, I made the Mercedes Emblem. The headlights were created with large fillets. The very last step was to basically fillet every straight line. Then, I assembled the parts, and gave everything color and the necessary material.

I learned a lot from this SolidWorks portion of the class. If someone told me that by the end of the semester I would be able to make a car in this program, I would laugh in their face, but now I am
fully capable of doing that and I am fairly confident and think I would be able to teach someone else how to make one too.