For my Personal CAD Project I decided to make a 3D SolidWorks model of my rubber band powered airplane that I fly in competitions. This plane is made out of Balsa wood, the wings are covered in a clear Mylar film, the propeller is a thin plastic, and it is powered by a very thin rubber band that is not included in the drawing but when in competition it would be wound and then placed on the two hooks (at the propeller and at the end of the first section of the fuselage) to then unwind and power the plane. These planes are made to fly indoors, be very lightweight and have endurance. They take-off from the ground and are supposed to land there as well. The most difficult part of building this project was deciding how to section the plane into parts. This was accomplished by making several main parts: the fuselage, the propeller, the main wing, the back wing, and the front cap that holds the propeller. This project relates to my major, hobbies, and personal experience because I have always been fascinated in flight. I am majoring in Aerospace Engineering which teaches the principles of flight outside our atmosphere. I have been building these planes for four years to compete in Regional, State, and National competitions. I have won Regionals, placed third in the state, and fifth in the nation in this competition. It is a part of the Technology Student Association which promotes the STEM Program through many competitions. I really enjoyed creating this model because it is something I have wanted to do for several years but have not had the program to do it. From this project, I learned that it is just as difficult to make a virtual plane as it is to make a physical one.