My ability to read and play music is something I took great pride in. I enjoyed being in both the marching, and jazz band during my time in high school. My instrument of choice was the tenor saxophone, and together we made amazing music. I enjoyed playing this instrument and I felt like it was only right for me to try and create one of my own. The main method I used to design my saxophone was lofting. To me lofting the body of the saxophone was the best option, because as it goes down from the “neck” its diameter increase. For the base of the saxophone I used a sweep to get that U shape at the bottom. After the sweep I lofted up to the
bell of the saxophone. From the bell and down four or five inches I used the flex tool to get that create a curve. For the top of the saxophone I used a loft for the cork, then used a sweep to create the neck, and last lofts to make the mouthpiece. The hardest part about this design was the keys located on the sides, front, and back of the saxophone. I had to offset multiple planes so that I could extrude the keys out at an angle, because they aren’t flat on the instrument. This took some time to understand what I had to do, but with the help of TAs the job got done. I never took SolidWorks before EDSGN 100, so I learned a lot about it during the semester. I still need practice before I can consider myself advance in program, but overall it fun. I enjoyed that we had some new to learn every time we step into the lab, because it challenge my abilities and made me think. Everything I learned in this class I will take with me, so I can develop these skills and become the best I can be.

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