

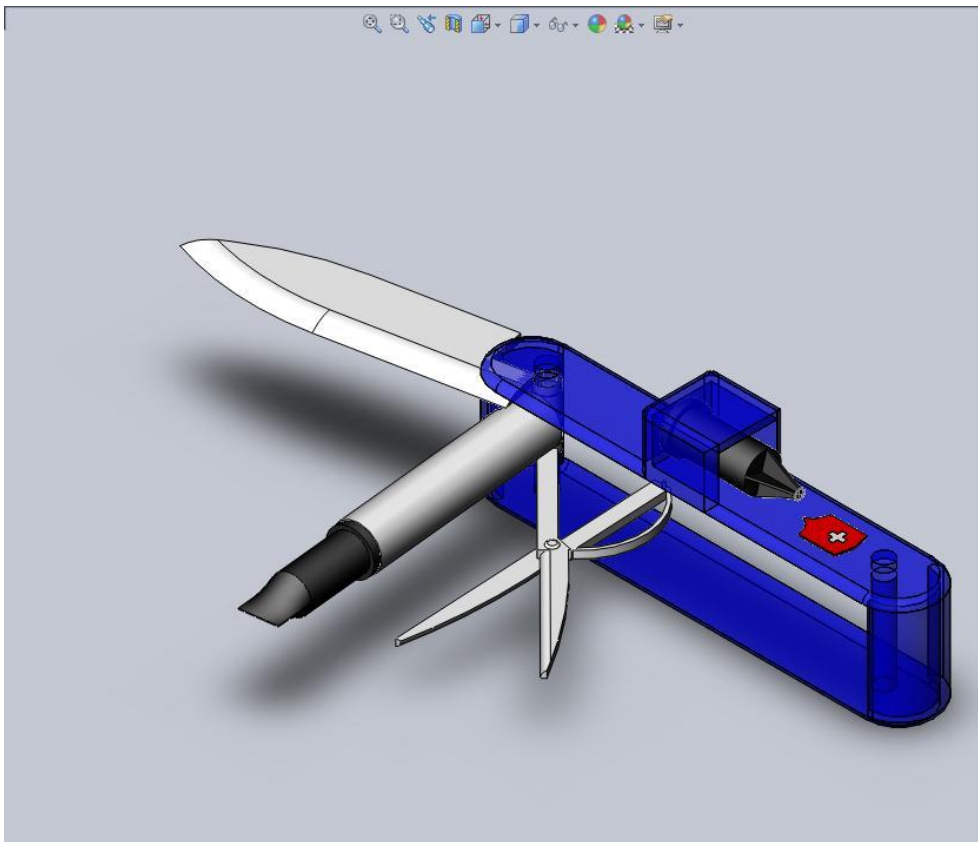
EDSGN 100 CAD Project

Hashim Akeel

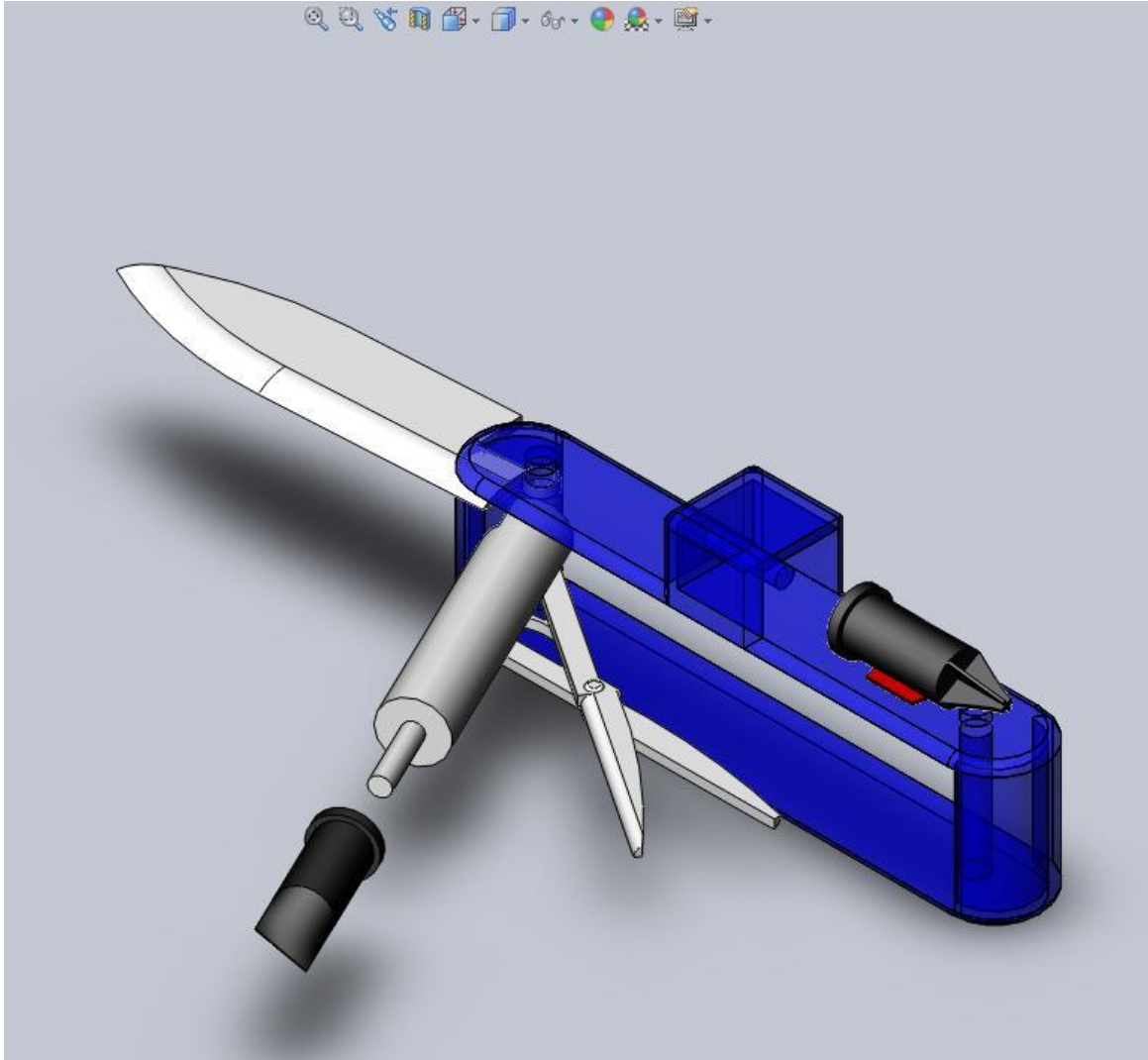
Swiss Army Knife

When I was a child my brother had an obsession with the Swiss Knife, it also intrigued me because of the many different tasks that it could handle. I remembered about it when I was about to choose my CAD project and I realized that it could be very interesting to try and make. I didn't really choose any particular one and tried to copy it, I just made one from my memory of it. Here are some photos of my final project:

- **Picture of the final assembly with everything in it opened position:**

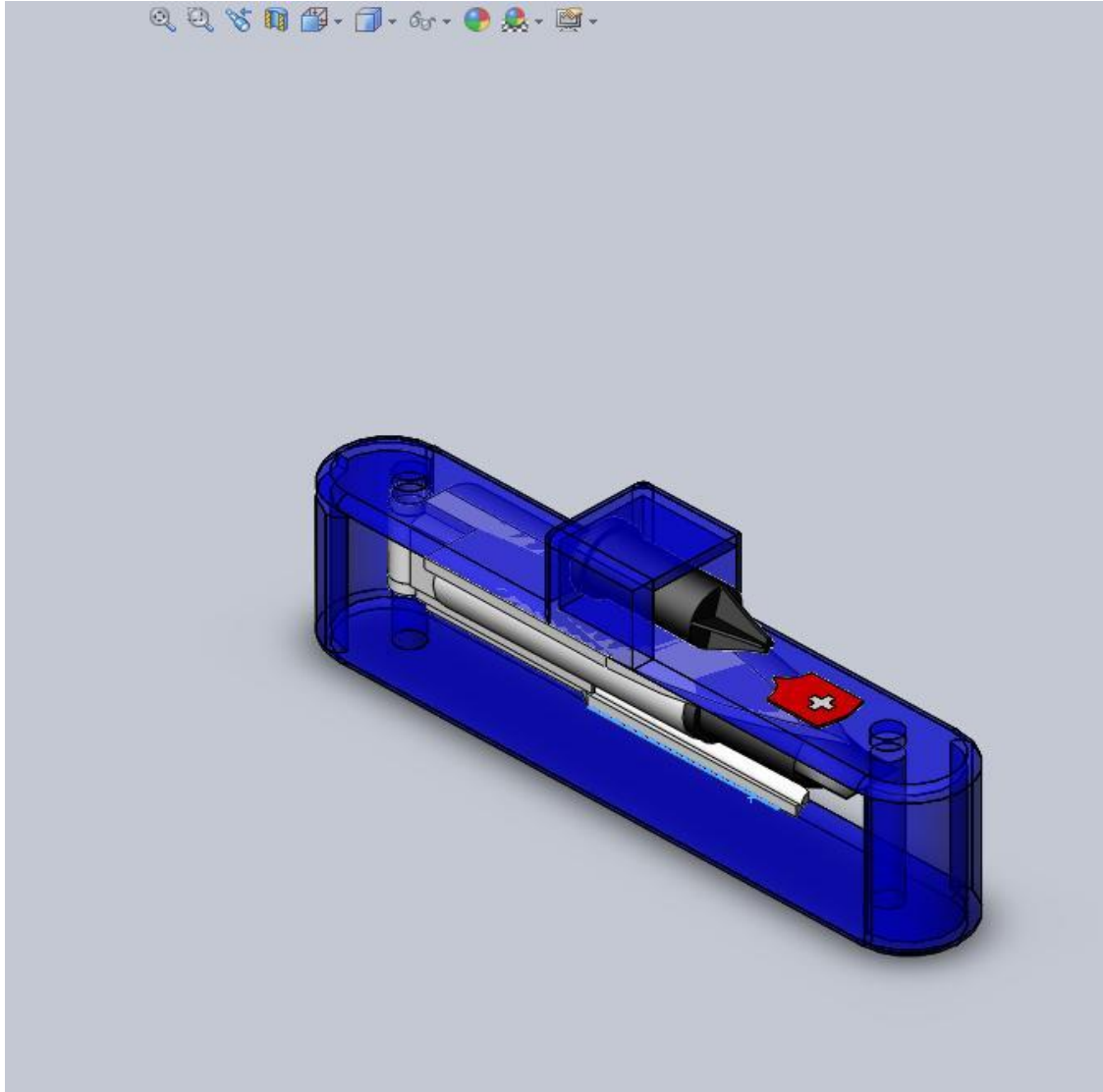


- **Picture of the final assembly showing that the screw head is changeable:**



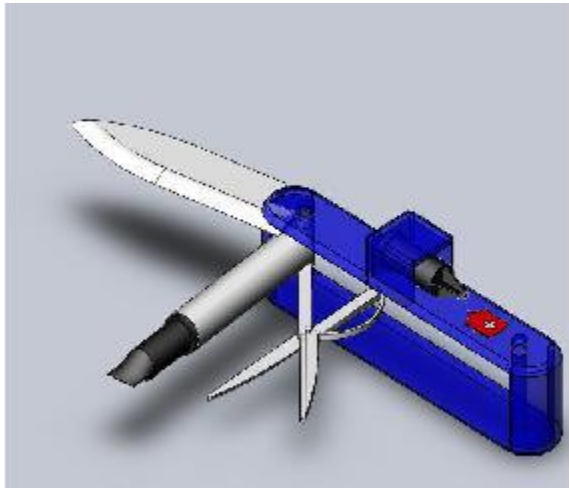
I added my own touch by making two different screw heads (star and line).

- **Picture of the final assembly with everything closed (basic position):**



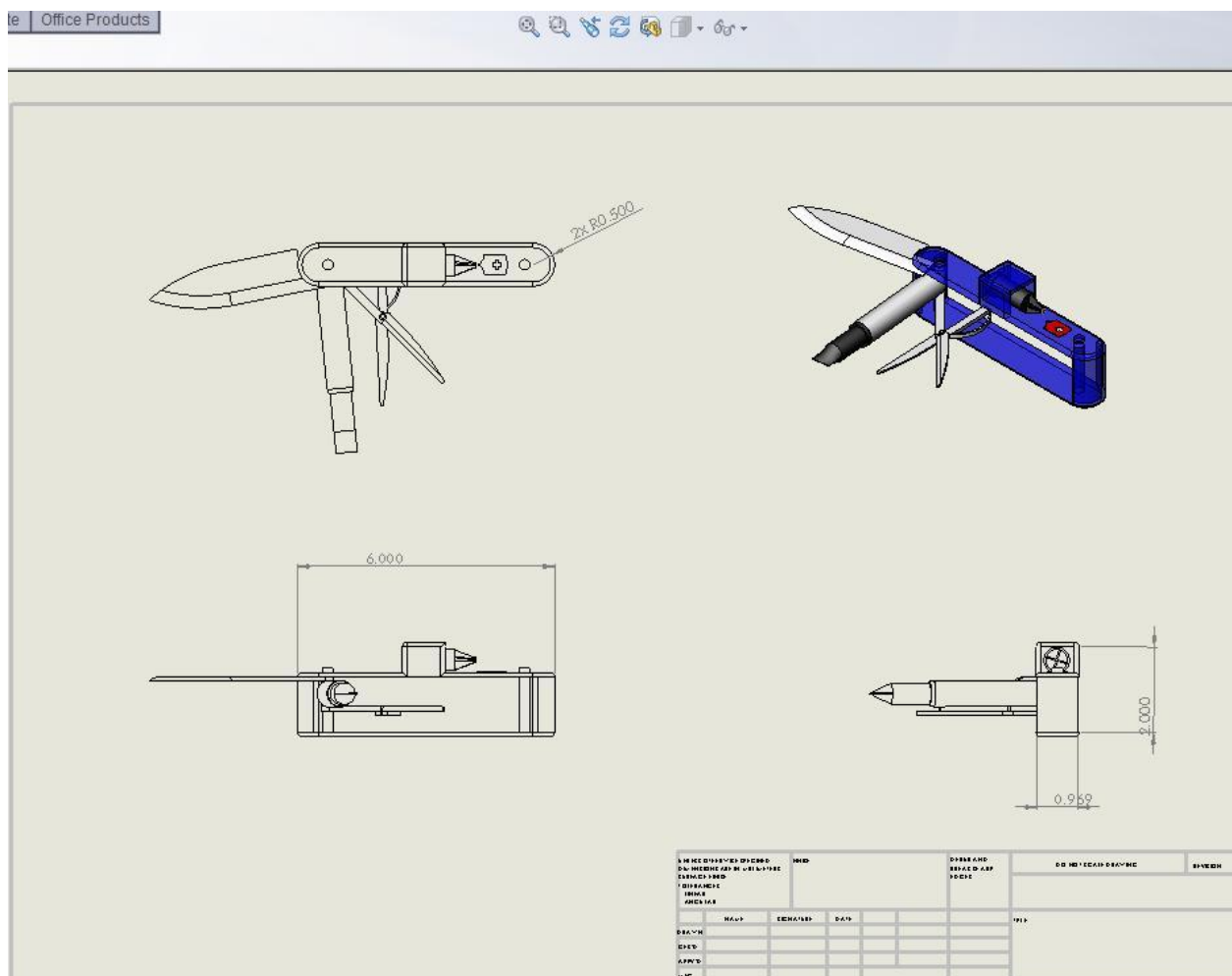
I really enjoyed making this, I used most of the available tools in Solid Works to make the different parts. The most challenging part was the scissors, it took me a while to get it right because I couldn't get the sharp side of each of the two parts of the scissors right (it is very simple but I messed it up a couple of times). The whole project looks a little bit oversized but its only 5 inches wide and 2 inches high, I didn't really check the dimensions of a real Swiss Knife, but I think it has a

reasonable size. Here is a picture comparing my project of some random Swiss Knife:



Picture source: "<http://www.comparestoreprices.co.uk/hand-tools/victorinox-classic-translucent-blue-swiss-army-knife--led-7-functions-06228t2.asp>"

And here is a drawing of my project:



Finally, I am very proud of my project. Although I could have added a couple more gadgets to it, I think that I did a good job especially considering that I made it from memory. Special thanks to my EDSGN 100 professor and TAs as they made it very simple for me to navigate through Solid Works and make this project.