

My STEM career of choice is Forensic Science Technician because it is important to STEM as it relates to the most important science and technology in the profession. Forensic science technologists use the engineering design process through the procedure of looking at everything and analyzing the evidence step by step. The main reason I chose this career is because they use the engineering design process so well and they have to go through everything to get a hold of what needs to be found.

Professionals in this career use the engineering design process by having a look and what's supposed to be agreed on. They have to research what type of tools are being used in a particular location. They also know how to use their tools to their advantage and how to easily solve problems that need to be finished to its finest. Technicians also need to test the tool before using it in the field. When the technicians are using the tools they change their plan according to what they found from their research which again leads to the engineering design process once again.

The professional approach to engineering design compare to the approach used from my team is the problem solving and the teamwork used. The reason for that is whenever we get a problem as a group we have to think of how we can resolve something that has happened. We also have to work well with teamwork and be able to communicate with one another because we don't want to mix things up and something goes wrong. Ways that the approach of the process can differ is how we don't over analyze everything we try different things on how we analyze some things depending on the situation.

Participation in VEX Robotics has helped me in preparing for a future career by knowing how to work with others easily. Solving problems too is easier now and thinking clearly when making a decision. In VEX Robotics as a team we have had different challenges that we had to face so it's easier now to handle things. Communication is also something really important when thinking about when you need a job so communication has really helped us as a team to understand each other better and know when something needs to be fixed or done.

In any career we can use the engineering design process by working through the process and knowing how to solve a problem by rational thinking with finding solutions before acting upon it. Also retesting things is an important factor for multiple things. For example in robotics there had to be multiple tests with how the drivers work best with each other and every individual role needs to test out what works for them best. All in all the engineering design process is really important in STEM and it helps with operating something.

Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Forensic Science Technicians,
at <https://www.bls.gov/ooh/life-physical-and-social-science/forensic-science-technicians.htm>