**Safety in STEM Projects- Nora Lasso, Robotic 3D Ultrasound**

I will use a [myCobot 280 m5 ENSP - Elephant Robotics](https://www.elephantrobotics.com/en/mycobot-280-m5-new-specificatons-en/) robotic arm to move an ultrasound probe.

1. Chemical Safety

Not applicable for my project

1. Fire Safety

Not applicable for my project

1. Electrical Safety

* When working with an electrical current, even from a small battery, you should always know when the electricity is “on” or “live,” and how to shut it off
  + The laptop has a battery, I know how to shut it off
  + The robot has a power adapter, and I can unplug it from the wall to shut it off
* Work on a clean, dry surface
  + I always clean the table before I work with the robot
* Wear protective clothing, safety glasses, and tie back long hair, avoid loose clothing
  + The robot’s payload is 250 grams and moves slowly so no protective clothing or safety glasses are required. I always tie my hair and will not wear loose clothing

1. Structural and Mechanical Safety

* When building something with dangerous moving parts (e.g. rotating, pinching, spinning), that is pressurized, or it is large or heavy enough that it could hurt someone, you need to make sure you and other people are safe when interacting with your design
  + For my robot, it only has a 250 grams payload and moves slowly so no protective clothing or safety glasses are required. I always tie my hair and will not wear loose clothing
* Wear protective clothing, safety glasses, and tie back long hair, avoid loose clothing
  + The robot’s payload is 250 grams and moves slowly so no need for protective clothing or safety glasses. I always tie my hair and will not wear loose clothing