

SafeChemVR

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Let's make this a new home for safety!

Our Mission:

We aim to create an immersive virtual lab safety training for students to become familiar with the equipment and safety procedures in a chemistry lab at Villanova. Our software will require active participation from the user to identify crucial elements of a lab and demonstrate they are capable of responding to emergencies when necessary, to create a safe and educational lab environment.

Our Technologies:



Our Product:

Allows users to explore the lab in an immersive VR environment using the Villanova CAVE, as well as identify and learn about lab equipment and its specific uses. In addition, users will be required to identify safety equipment for different emergencies so that they are able to respond in a timely manner through a tour.

Our Experience:

The environment is produced by a LIDAR scan of a Villanova Labroom so that students are placed in an identical environment and can be accustomed to the setting. The scan was then registered as a point cloud using Faro Scene, which was exported into the Vizard software as the environment.

