

Virtual Reality in a Tractor Safety Curriculum

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Tractor Rollovers continue to be a source of injury and fatality for youth aged 14-20. With ROPs and Safe Driving Practices these injuries are preventable.

Field-testing the VR Tractor by various teachers, students, professors, and community members. Feedback has been taken and implemented to make the program more effective. The simulation provides hands-on training over hilly or karst (sinkhole) terrain to practice virtually avoiding rollovers.

This innovative idea takes advantage of the growing interest in virtual reality to increase success in the classroom. The VRCROPS program was designed to provide students within a traditional classroom setting the opportunity to view and experience scenarios outside the scope of their physical environment and into simulated environments they might not otherwise be able to experience.

Costs associated with this system included the following: VR Ready laptop (\$1300), Oculus VR System (\$399), G920 gaming handle system (\$299), and Unity V Personal 3-D Software license (free).

