

# Drilling Rig Training Simulator in Virtual Reality

A VR based experiential learning solution to train oil rig operators



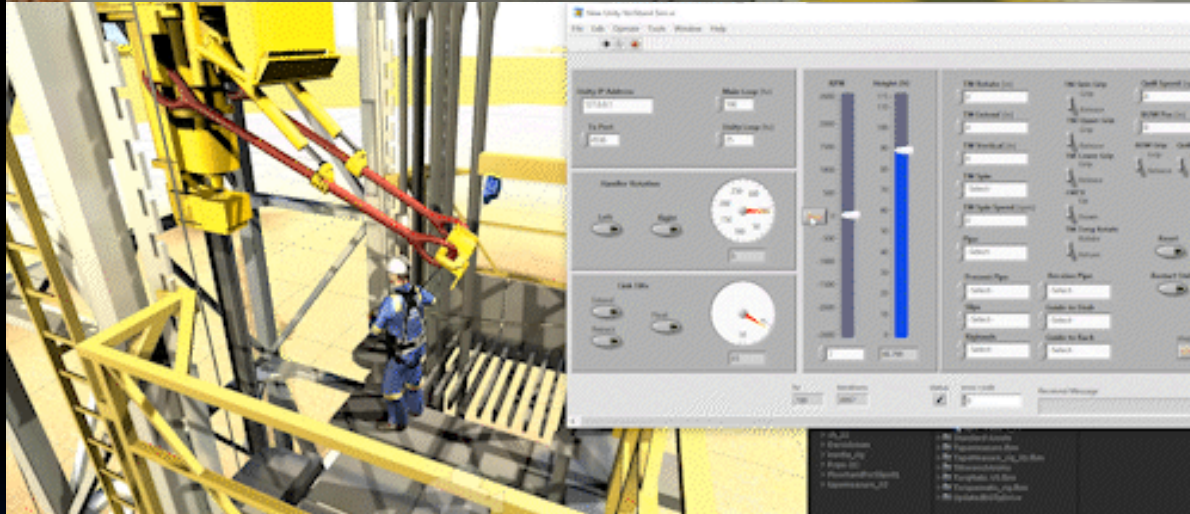
The background image shows the silhouettes of an oil rig and its workers against a dramatic sunset sky. The rig's complex metal structure, including a derrick and various pipes, is visible. Several workers wearing hard hats are positioned at different levels of the rig. The sky transitions from a deep orange near the horizon to a darker blue at the top, with scattered clouds. The overall mood is industrial and professional.

## BACKGROUND AND CHALLENGE

To train and equip oil rig operators on several operational procedures and scenarios before exposing them to the hazardous and difficult on-site conditions.

## SCOPE OF WORK

Developed a virtual training simulator for the oil and gas giant simulating real life situations and conditions.



## SOLUTION

- Designed, created and programmed Digital platform that simulates oil drilling rig equipment.
- Drillers were trained on simulators before their on-site training
- All tasks performed during actual drilling were replicated, modeled and simulated on the platform
- Remote troubleshooting modules were developed
- The simulator can assess the quality of the task performed and judge the user's behavioral patterns as well

## IMPACT

- 80% Reduction in logistics and inventory loses
- 76% cost reduction for train technicians