Drilling Rig Training Simulator in Virtual Reality

A VR based experiential learning solution to train oil rig operators
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.