



## DrillX\_Desert Elephant

**Date executed:** 2019 - Current

# PROJECT DESCRIPTION

In 2019, driven by a focus on safety, efficiency, and the concept of an automated drilling rig, we began exploring the possibility of integrating a robotic loading system into existing drilling rigs. After extensive brainstorming, planning, and decision-making, we developed a compact, 20-foot container-sized platform that requires no direct human intervention—operated entirely via remote control from a safe distance.

SAR Electronic SA was entrusted as the lead contractor for this project, responsible for integrating robotics into the system. This included the design and manufacturing of the rod gripper for the robot, as well as magazines to store and manage the drilling rods.

The scope of work also encompassed the creation of new electrical and software designs, along with the complete electrical installation required to upgrade the system to its new, advanced configuration.



# TECHNOLOGIES

- KUKA Robotics
- Hydraulic Systems
- Pneumatic systems
- Siemens PLC – TIA

Automation Engineering



Technical Training



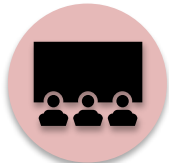
Green Energy



Maintenance services



3D Design Simulations



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