CODETANK LABS

Industrial Augmented Reality Service Application

The Problem:

A service company in the nuclear industry needed a way to properly identify and efficiently service a pump within a controlled environment. They required the technical to enter the environment with minimal tools and resources on their person. The pumps are unique to their application and facility so often a technician is not completely trained on a specific unit.

The Solution:

Our team proposed and built a propriety demo application that could be served up on a wearable headset (Google Glass, ReconJet, etc) or a mobile device. This application, using artificial intelligence, can recognize a machine based on specific parameters (size and shape) or by marker placement and provide the technician with resources such as videos, schematics, and manuals of the machine within the application and alleviate the need for them to carry multiple documents in order to service the unit.

Current state:

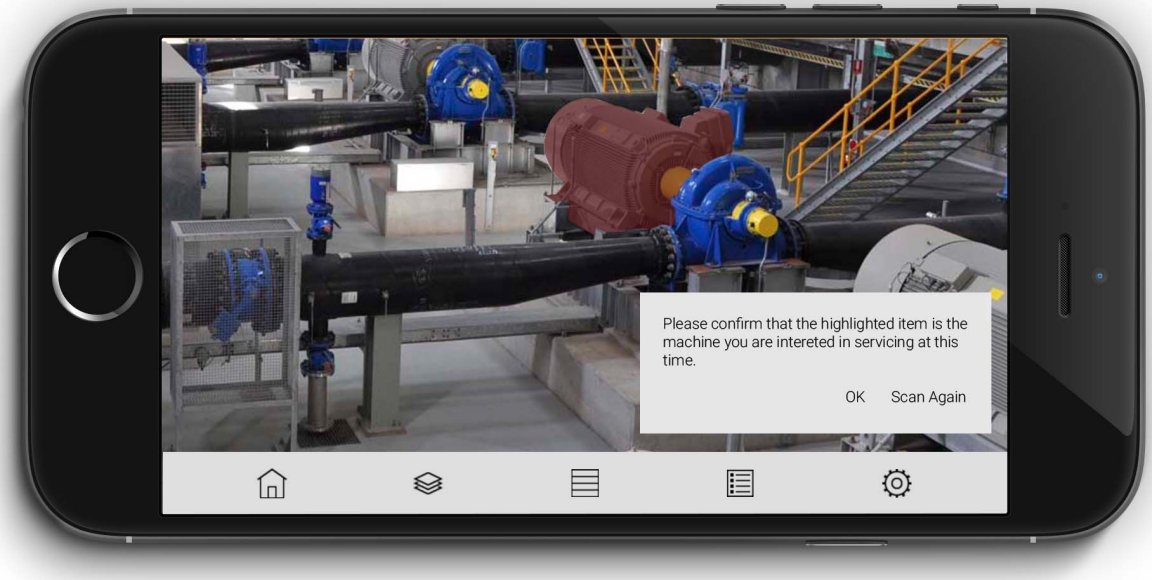
Proof of Concept Demo with Client

Proposed Product:

Our proposal to the client it to build a complete content management system to power the application and expand the number of compatible devices. This would allow them to manage a number of machines' resources and provide them with the means of adding new units to the platform on demand. This administrative portal would allow the company to manage technician access and which facilities would have permission to view which items. Also, for security purposes, models and specs will only be accessible via a geo-location based system to protect access outside of the facilities.

Cleaned images from original app comps:

Note, the following images are from the original proposal. Images of the final application are protected by an NDA with our client.


Please confirm that the highlighted item is the machine you are intereted in servicing at this time.
OK
Scan Again


Explode Model
Open Manual (PDF)
Review Parts List