

System and Method for Managing Security Officer Training Using Augmented Reality

Technology Overview

E-learning is gaining traction as a tech-enabled training tool for security officers. In February 2019, SkillsFuture Singapore (SSG) highlighted augmented reality (AR) as one of the key global trends in the Training and Adult Education (TAE) landscape. The system and method described is an augmented reality (AR) platform that is designed for security officer training. It can be used to supplement WSQ training for security operations and as refresher training for security officers at the workplace.

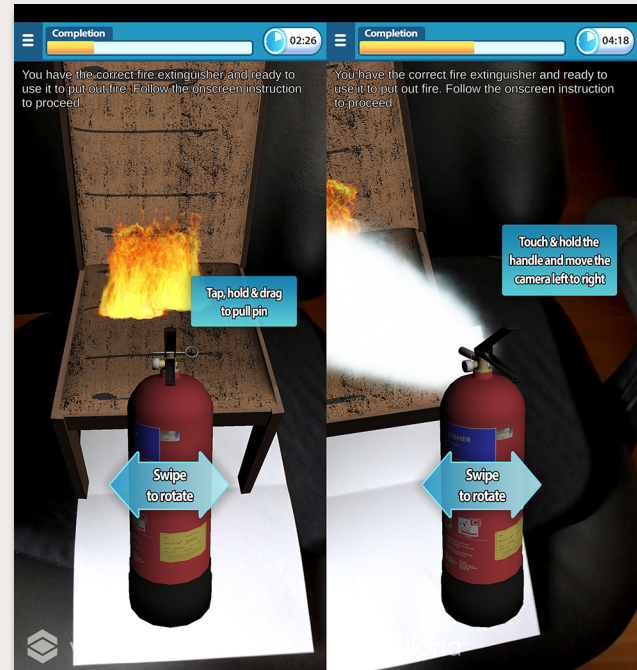
It sets itself apart from most other AR/VR training available, with its flexibility to create a learning environment using the deployment of markers (QR Code) and mobile application on trainee's mobile devices. The invention does not rely on bulky hardware (AR/VR glasses) thus making it conducive to adopt for workplace learning. This makes it easy for large scale deployment as well as ease of use. The use of markers allows the trainer to easily create rich contexts just by placing the marker at a meaningful location. The application can be scaled by adding modules or scenarios.

Features & Specifications

The system comprises four sub-systems:

- AR application
- web APIs
- portal/database
- dashboard

With a modular approach, the invention can assist security agencies (SAs) in addressing some aspects of the annual Security Agency Competency Exercise (SACE) criteria in developing customised training packages to address their own unique set of knowledge gaps at different sites.



Customer Benefits

The use of AR technology on a mobile device compared to traditional mode of training, allows the following benefits to the trainee:

- easy access to learning
- self-paced learning
- flexibility
- supplementary content to existing training

In terms of training, the system promotes:

- experiential learning
- engaging scenarios for engaged learning
- contextual training at workplace

Potential Applications

- Security officer training

Collaborator

Security Industry Institute