3D Virtual Laboratory

TECHNOLOGY OVERVIEW

- The School of Applied Science (SAS) 3D virtual laboratory will provide users with a comprehensive, immersive and realistic learning experience of a diagnostic laboratory.
- Users can experience the entire spectrum of specimen handling, from pre-analytical, analytical to post-analytical phases.
- Users can interact with virtual objects in the VR programme guided by on-screen interactive elements in their learning.

APPLICATIONS

- Training facility for new staff to assess work competency.
- Preparing students prior to the commencement of internships.
- Introduce the profession to prospective students

BENEFITS

- Mimics the real-life work environment
- Incorporates an element of fun and interactivity into learning
- Users can learn from their mistakes in a controlled setting
- Provides a safe and non-hazardous learning environment
- Cost saving by reducing wastage of materials used when done in real life setting

MARKET OPPORTUNITIES

- An alternative and effective learning and training tool
- Equipment and systems can be modified and customized depending on training needs
- Immersive and realistic learning environment

Figure 1: Virtual Laboratory Environment

Figure 2: Use of Virtual Reality Headset & Handlers

Figure 3: Specimen Handling Processes

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If you are keen to collaborate with RP on this project, please contact the Office of Technology Development at help-OTD@rp.edu.sg

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