Virtual reality for employability skills

Conference or Workshop Item

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Virtual Reality for Employability Skills

Shailey Minocha and Ana-Despina Tudor
20 July 2017

3D virtual environments and virtual reality

Second Life
Virtual Skiddaw: 3D geology field trips (Unity 3D)
360-degree videos in the browser
Virtual reality viewers
Affordances

- 360-degree visual authenticity
- 360-degree navigation
- 3D view
- Emphasis and in-situ contextual information
- First-person perspective
- Simulation
- Single-user handling
- Synthesis
- Visualisation

3D virtual geology field trip – Virtual Skiddaw

3D virtual geology field trip, video: https://www.youtube.com/watch?v=zfbA1s9uRoU
Other types of virtual reality

VR in health care
VR’s Healthcare Revolution: Transforming Medical Training at CHLA
Video:
https://www.youtube.com/watch?v=4om8g0u9a4M

360 degrees video in Chrome
Ocean: A 360-degree tour of the mysterious, magical corals of Palau
Video:
https://www.youtube.com/watch?v=jvtvFHPRcsY

Employability

“A set of capabilities and achievements that support students in developing their careers, raising their aspirations and enhancing their contribution to society.”

The Open University Student Employability Policy Statement
Virtual reality and employability

Virtual reality

- Workplace usage
- Learning and skills development
- Awareness

Design and prototyping
Risk assessment training
Continuing Professional Development
Emergency and natural disaster management training
Treatment of depression, loneliness, dementia

Awareness of virtual reality technologies

Sensitising to environmental issues
Interviewing; team-working skills
Healthcare education; forensic science training
Teaching
Experiencing the invisible

Real places

“The virtual reality helped me because I could see for myself what was happening without having to imagine it.”

Learning through simulations

Simulations

“The animation was very realistic; therefore, I could take more knowledge away from the lesson [...] these images can [...] help me explain about the respiratory system in a much larger amount of detail.”
Local to global – and – global to local

"It helped me to understand the Chilterns is an area of natural beauty compared to some places in the world. It helped me to feel more caring about the Chilterns."

The future
# Questions and comments

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</tr>
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<tbody>
<tr>
<td>Email addresses:</td>
<td>(shailey.minocha; ana.tudor)@open.ac.uk</td>
</tr>
<tr>
<td>Twitter:</td>
<td>@ShaileyMinocha; @AATudor</td>
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