

Case Study | The Simulation Crew

VR & AI game changers in health

Virtual reality and artificial intelligence are not just two buzz words in the media, but can really make a difference to people's lives. A good example is the training of staff in hospitals.

Challenge

The Dutch company The Simulation Crew started a project to bring these two innovative fields together in the health sector. The company develops virtual training simulations for strong and effective learning. They created a virtual environment to train interns and new employees at a hospital in the Netherlands.

The challenge in this field lies in the training of new staff. A hospital is an environment where mistakes can be critical and the staff has to communicate very cautiously and empathically with the patients. New employees have to train this kind of communication first and needed a safe environment to do this.



thesimulaationcrew.com

The Simulation Crew develops serious games and game concepts to train communication and social interaction skills using intelligent avatars in a realistic 3D environment.

Nijmegen, Gelderland, Netherland

Founded 2016



Solution

The idea behind the project is that the staff engages with non-playable-characters (NPCs) without the risk of making mistakes. In the real world those mistakes could be critical due to the fact that patients at the clinic are in a sensitive emotional state because of their condition. So, the virtual environment offers the new employees a safe area for learning.

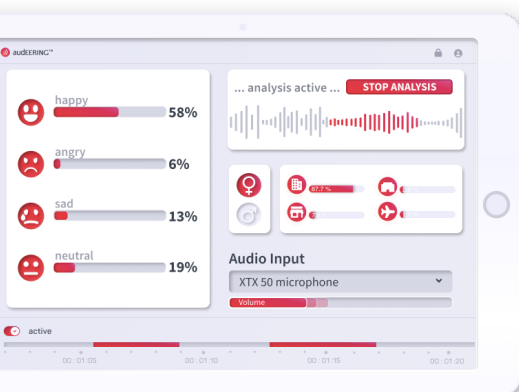
The environment basically looks like a video or computer game. The user plays the main character and interacts with patients in a hospital, which are NPCs. These virtual characters are equipped with devAlce® XR (former entertAI n play) to simulate the emotional reaction of real-life patients. They perceive the emotion of the player from his or her voice through audio AI.

The training application is designed in a way, that helps the new employees to learn how they react in a way that matches the sensitive state their patients are in. Therefore, the application focuses mainly on emotions like anger and nervousness, which could arise in the patients, if the staff does not treat them empathically enough.



Result

The goal of the project is to make the application as natural and immersive as possible so that the staff and thus the hospital profits as much as possible from it. So far, there is great progress and the application will soon be used for all new employees in the hospital.



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A future where our interactions with computers and virtual characters are emotionless was not an option for us. So, we were glad to find audEERING and use their entertAI solution for emotion AI in our Virtual Reality product. It helped us add a new layer of emotional interaction to our scenarios in VR.

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**Eric Jutten, CEO
The Simulation Crew**

How VoiceAI is revolutionizing edutainment

devAlce® is audEERING's audio analysis for any product. It can detect emotions, scenes, and many other features from audio. Both real-time and batch-processing modes are supported. Our AI models perform solidly even with limited CPU power.

With our devAlce® XR (former entertAI) plugin, you can add empathy to XR projects and create immersive interactions.



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