

Dear test user,

thank you for participating in the usability testing of the Augmented Reality Training Utility for Radiography (ARTUR) as a part of my master thesis at the University of Applied Sciences St. Pölten. ARTUR is a Microsoft HoloLens augmented reality (AR) application which supports the training of patient positioning for radiographic imaging. By positioning life size holograms of body parts in place for radiographic imaging in the user's field of view, the holograms can be used as a reference for the position of a test patient. Users can match the position of their training partner to the hologram. In addition, the recommended position of the central beam, indicated by a crosshair and size of the radiation beam can be displayed on the hologram.

Following the testing an interview will be conducted, the interview will be recorded and transcribed. The participation in this test is voluntary, all personal data will be pseudonymised and the test can be cancelled by the participant at any time.

Testing instructions

After familiarizing yourself with the Microsoft HoloLens and its interface, please carry out the following instructions:

- a) Open the HoloLens Main Menu with the "Bloom" Gesture.
- b) Chose the App "ARTUR" from the App menu.

In the Application:

1. Chose a body part of your liking in the menu.
2. Place the menu anywhere in your space, where it does not interfere with your training session.
3. Place the hologram of the body part on a table next to your test patient.
4. Rotate the hologram, so you can position your test patient comfortably into the hologram.
5. If needed, resize the hologram to fit your test patient's anatomy.
6. Position your patient according to the position of the hologram.
7. Enable the holograms light beam localizer to check where it should be positioned.
8. Repeat the same procedure with a second body part.

Declaration of consent to data collection and analysis of personal interview data

Title of the Thesis:

ARTUR – Augmented Reality Training Utility for Radiography - Design, development and usability testing of an educational tool for radiographic patient positioning

Author and Institution:

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The interview will be recorded and transcribed by the author. Any data which would allow identification of the interviewed person will be changed or removed from the transcript (pseudonymized). To give readers context, only parts of the interview will be cited in the thesis.

Personal data will be saved independent to the interview data and deleted after finishing the thesis.

The participation in the interviews is voluntary. You can cancel the interview at any time, revoke your consent to recording and the transcript of the interview, without any disadvantages arising.

With your signature you agree to participate in the interview and with the use of the collected data for a master thesis. All data will be recorded, saved and processed. The data will not be used for other or commercial projects.

First-, Lastname

Location, Date, Signature: