

Senior Design of the Issue

FireFighterVRTS

A project aiming at developing a virtual simulation training system for firefighters. Up to this date, there are no real simulations that cover firefighters training. Firefighters conduct their trainings in real life conditions through putting on fire real objects in real spaces. Such a process is costly, time consuming and does not allow a frequent and regular training for the firefighter's units in the civil defense department. Hence, the idea of this project is to provide virtual reality solution, which will help the firefighters not only to train, but also to put them in the most realistic conditions using a lot of different hardware. There are many technical R&D challenges to deal with in this project including providing realistic simulation by incorporating various SW/HR components to implement human senses and mapping VR to Real worlds, using realistic simulation scenarios, and team cooperation feature.



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