



Helping Heroes ♥ Fighting Fire with Fire

The very nature of a Firefighter's job involves fearlessly facing dangers and saving lives. Their selflessness is beyond admirable, and their dedication keeps our communities safe and sound. When Firefighters aren't busy tackling flames, they focus on training as a team so that they can be prepared for any emergency thrown their way. However, given the destructive nature of their tasks, training in realistic environments is quite costly and difficult to replicate safely. Ultimately, this limits the number of in-field training hours Firefighters receive every year.

To make Firefighter training more accessible for [Tactik360](#), we used StellarX to create a collaborative virtual reality experience that allows Firefighters to get hands-on training in life-like environments in a cost-effective and scalable manner, which is not only safe but easily accessible. Furthermore, real-time collaboration allows Firefighters to work towards improving responsive times as they face fire and other perilous situations.

Challenge: Accessibility

Solution: Immersive Skill-Building

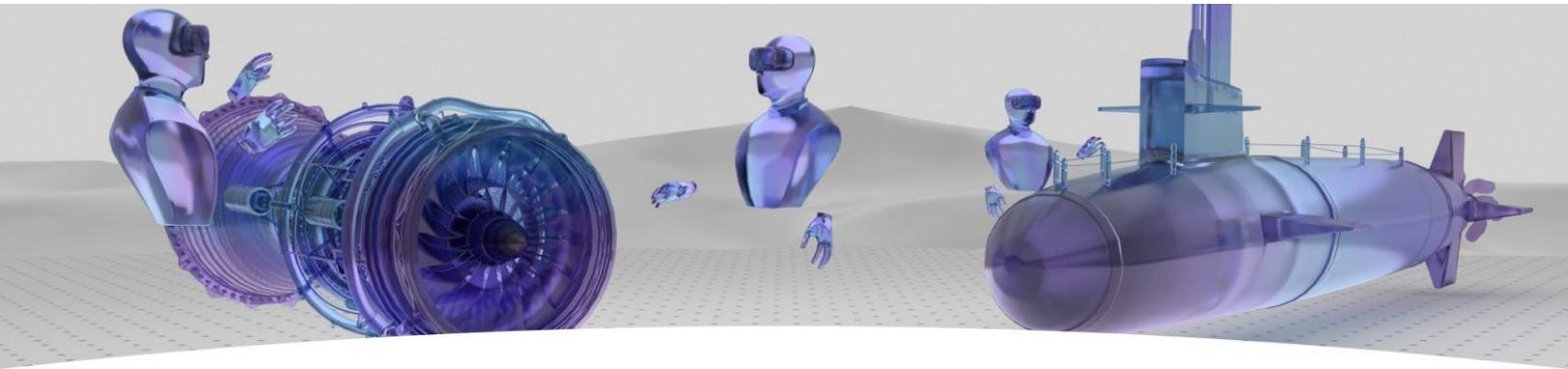
The solution proposed by OVA resulted in the development of collaborative training experience for Firefighters in which they can practice over and over again, and effectively manage dangerous crisis situations.

As such, we created a virtual environment that mirrors the reality Firefighters face every day. The space includes a hub in which Firefighter trainees receive an emergency call before being transported to the scene, which features a firetruck, a flaming house in a residential neighborhood, distressed characters that need to be saved, and more



Virtual Crew members react to the commandant's orders

In addition, we designed contextually adaptive scenarios to replicate, with as much realism as possible, the emergency situations they must respond to as a team. For example, one scenario requires that Firefighters collaborate to save somebody from a flaming house. Each team member must accomplish a specific task, such as climb the ladder and put out the fire on a given floor.



A virtual toolkit allows the user to access everything necessary to the operation

Results

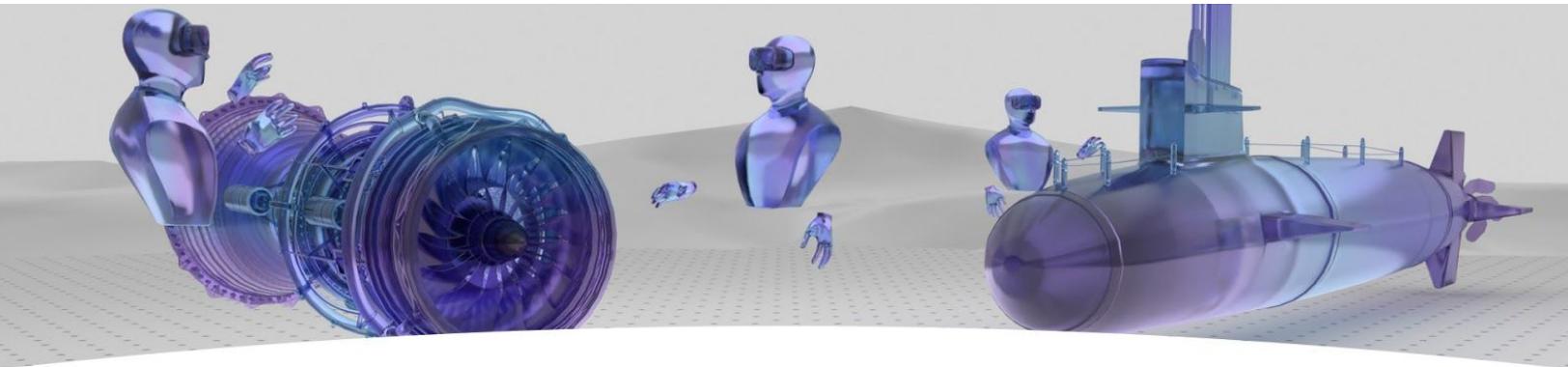
After 3 months of training, the Tactik360 team saw a significant improvement in terms of responsive efficiency and team collaboration. Tactik360 also noted that Firefighters were pleased to receive additional hands-on training in a safe environment and cost-effective manner.

Naturally, over the coming months, Tactik expects that using StellarX as a complement to their real-world training will better prepare Firefighters in the field as they can use virtual reality to practice for any type of situation: water rescue, avalanche training, vehicle accidents, cave and tunnel emergencies, structural collapses, elevator issues, power line dangers, industrial accidents and more. And, it will also help future Firefighting students build up their confidence and skills as they get hands-on practice.

Benefits

- More Experienced
- More Prepared
- More Responsive





A few of our major accounts



Pratt & Whitney

A United Technologies Company

BOMBARDIER



Main industries served

- Security and defense
- Heavy industries
 - Energy
 - Mining
- Advanced manufacturing in transportation
 - Aerospace
 - Maritime
 - Railroads

Standard Industrial Classification (SIC)

73720000 - Prepackaged SoftWare

73729903 - Educational Computer SoftWare

73729902 - Business Oriented Software

33331800 - Other Commercial and Service

North American Industry

Classification System (NAICS)

541515 - Video Game Design and Development Services

541514 - Computer systems design and related services

Our R&D Partners

- Laval University
- Concordia University
- Reading University
- Nara University
- CIMMI Research Center

Company Information

Company legal name; OVA

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