



**FreeRange** XR™

*Virtual & Augmented Reality*

*Simulation & Training*

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**Training for the 21st Century**



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# Why Extended Reality (XR) Training?

## State of the Art

- Utilizes the most advanced AR and VR tech to build hyper realistic simulations
- Real-world controllers, like steering wheels and throttles, heightens realism

## Train Faster, Better

- XR Training works!
- Immersive, interactive simulations make employees effective and safe in hours

## Reduces Costs, Risks

- Simulate almost any real world situation
- Ideal for expensive and dangerous training situations
- Train in any scenario with any equipment anywhere in the world

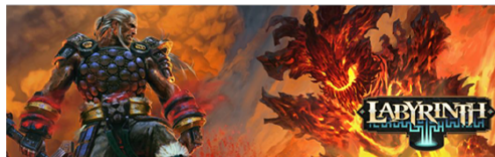


# Gaming background

*With our background in the games industry, we are uniquely positioned in the fast growing VR space.*

**Free Range has World Class skills and assets in:**

- Fluid gamified interaction (design and programming)
- VR asset and environment creation
- Unity3d engine expertise
- VR system integration
- Physical and mechanical modeling and simulation
- Hardware interface integration
- Ability to quickly grow team size to address opportunities



## FreeRange XR – Who We Are

*Free Range XR is a studio of dedicated, passionate, and seasoned creators with a commitment to the craft of making premium simulations. With decades of experience as a development team, Free Range brings a deep breadth of knowledge and experience.*



**Chris Scholz: Founder, CEO**

Founded Shaba Games in 1997, grew it from 8 to 120 employees, and managed the sale to Activision in 2002. Launched Free Range Games in 2010, then bootstrapped Free Range XR in 2017 to gamify VR Training.



**Burke Drane: CTO, President**

Manages internal production for Free Range as well as coordinating technology partners and directing design. Received degrees in Math, Computer Science, and Finance from MIT where he conducted research on Advanced Human Computer Interfaces.



**Scott Werner: Art Director**

Decades of experience managing art direction and production on large scale IP including Shrek, Marvel, and Tony Hawk. Clients from Dreamworks to Marvel have called his work "visually stunning" and of "leading edge production value."



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## FreeRange XR - Services



### **Design & Consultation**

We work with you to create the right solution and strategy for your XR training needs



### **Custom App Creation**

We provide all of the art, design, and engineering to imagine, develop, and support your VR / AR application and learning simulation



### **Licensable Products - Coming Soon**

Confined Space, Fall Protection, Fire Suppression, and Job Safety Analysis training simulations available for licensing

# FreeRange XR - Process



## Learn

Perform research and observation with client to gather requirements



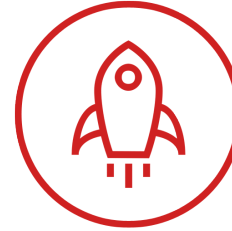
## Design

Create a proof of concept prototype to prove viability and value



## Build

Scale and construct a full product offering from the prototype



## Launch

Deploy the final product live in the field



## Evaluate

Data collection and analysis of the product to assess and refine as needed

# FreeRange XR - Custom Solutions

*Solutions for any platform for all industries.*



## Mobile AR

The most accessible tech, using the power of ARKit and ARCore for iOS and Android.



## Visor AR

We create in the field experiences for Hololens, Magic Leap, and other AR visors.



## Standalone VR

Simple VR experiences for the Vive Focus, Google Daydream, and other all in one VR headsets.



## Roomscale VR

Immersive experiences involving tracked props and objects using HTC Vive and Oculus Rift.



## Full Simulation

Complete immersion implementing custom hardware like vehicle controllers and custom interfaces.

Depth of Immersion

# FreeRange XR - Tech Layer

## Core Libraries

### Vehicle Physics

Data driven system allows for quick modifications

Sim Forklifts, Bus Driving, Excavators, Cranes

### State Logic System

Standardize system leads to clean, efficient, reusable code

### Controller Interface

Allow for real world controllers like steering wheels and throttles

### Software Updater

Auto-updater allows for in-the-field updates to latest software

## Back End

### User Authentication

Track Unique Users

Link to pre-existing learning management systems

### Store and Manage Data

Record and store all relevant data for

Analytic dashboard leads to future business intelligence

### Multi-User Access

Create shared training experiences

### Remote Assistance

Real time Access to remote experts

Minimize travel for key personnel

## XR Specific

### UX System

Unique, consistent system for displaying User Experience info in 3D

### Comfort / Anti Nausea

Variable settings reduce symptoms felt from sensitive users

### Hand Tracking

Leap Motion integration allows users to "see" their hands

### 2nd Screen Admin Panel

Admin control let's instructor monitor user's experience

### Computer Vision

Object recognition and analysis



# FreeRange XR - Full Simulation - Raymond

*Create all aspects of the Raymond Forklift Simulator, currently being used by Raymond dealerships throughout North America*

## Raymond Forklift Simulator - Use Case

- Winner 2018 MODEX Innovation Award
- Featured at the HTC Booth at CES
- One simulation, a dozen different forklifts
- Train to mastery on real Forklifts

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*“In my 30 years of training, I've never had an employee come back to me and ask to do it again, until now.”*

**HSE Manager**



# FreeRange XR - Standalone VR - Fall Protection

*FreeRange is in development on a suite of packaged safety training solutions, coming Q2 2019*

## Fall Protection

- Trains the user on the proper selection, inspection and use of equipment
- Lessons will cover everything from the basics to advanced techniques that challenge the user's expertise
- Several different environments, such as a construction site and practice area will be created that simulate the most common scenarios where fall protection is required



# FreeRange XR - Standalone VR - Fire Suppression

*FreeRange is in development on a suite of packaged safety training solutions, coming Q2 2019*

## Fire Suppression

- Trains the user on the proper technique and handling of a fire extinguisher
- Lessons will cover everything from the basics of handling to advanced techniques that challenge the user's expertise
- Several different environments, like a car garage, office building and a warehouse floor, will be created that simulate the most common scenarios where a fire extinguisher is used



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## Contact

**Chris Scholz**  
CEO

415-595-4094 Direct  
chris@frexr.com  
www.frexr.com

**Lee Barnes**  
VP of Business Development

415-944-5418 Direct  
lbarnes@frexr.com  
www.frexr.com

## Fun - Engaging - Effective

