

M-LINE STUDIO PROFILE

MLINE STDIO
COMPANY POFILE

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MLINE STUDIO

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Reading movement
and connecting thoughts
MOVEMENT LINE _____



MLINE STUDIO
is
VISUAL
COMMUNICATION
GROUP.

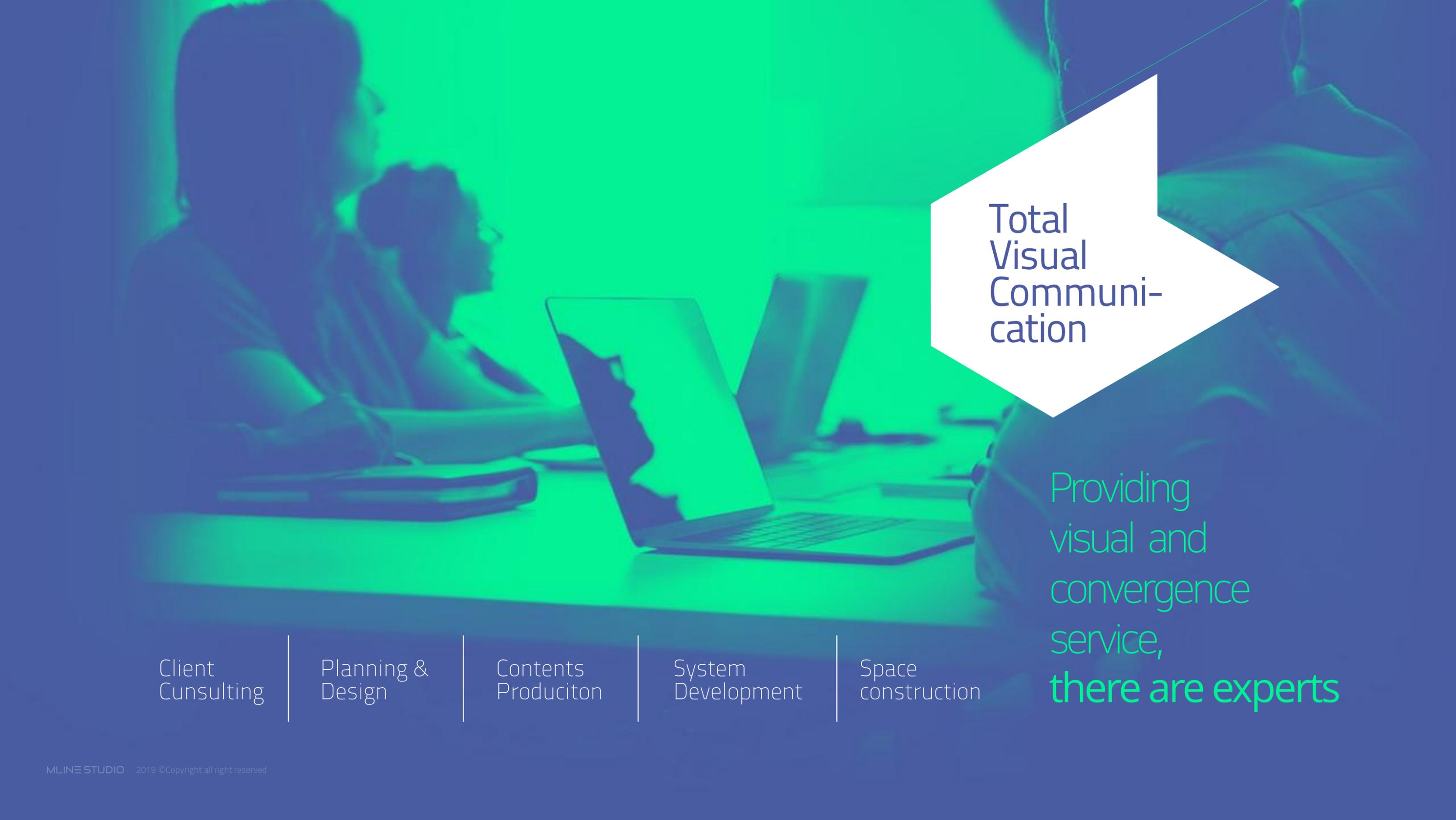
WE **WHAT-**
HAVE **EVER**
AL- **YOU**
READY **WANT**

Whatever you want _____
MLINE STUDIO already
has the answers.



WHAT WE
EVER MOVE
YOU AL-
THINK READY

Whatever you think
MLINE STUDIO is
already moving



Total
Visual
Communi-
cation

Providing
visual and
convergence
service,
there are experts

Client
Cunsulting

Planning &
Design

Contents
Produciton

System
Development

Space
construction

Experts are gathered to make **CREATIVE** contents

ANIMATION

- Advertisement
- Promotion
- Education
- Exhibition
- Entertainment

SPACE

- Safety Experience Center
- Exhibition
- Information Hall
- Education Center

VR/AR

- Safety training
- Practical training
- Entertainment (GAME)
- Interior
- Promotion
- Exhibition

H/W & SYSTEM

- 4D Simulator
- Wearable
- Tangible Controller
- Training operation system

Through endless research and development, we have experienced diversity of new technology businesses to be able to suggest contents with the application of advanced technology.

MLINE STUDIO has been showing amazing growth and innovation

AWARDS

- Award for contributing in the development of Culture Contents Industry of Bucheon City
- Herald Economy's The Best Korea Award Customer Satisfaction Management Award
- Sports Donga Quality Satisfaction Rank 1 Company and Innovation Technology Grand Prize
- SEOUL VR, AR Award Industrial Contents Part
- Frankfurt International Industrial Safety Prevention Medial Festival Finals

LICENSES

- Venture Company Certification
- Ministry of Science and ICT Corporate Affiliated Research Center
- Video Production registration
- Software Business Registration
- Industrial Design Specialized Company Certification
- Video Production and Direct Production Validation License
- Computational Task Software Development, Direct Production Validation License
- Original character and Trademark Copyright Committee IP Registration
- Safe Line Fall Experience VR Industrial Safety Contents Copyrights registered
- Game SW MOVE YOUR BODY Copyrights registered
- Game Production Registered
- Game Distribution Registered
- GAME SW PUMPKIN POP Copyrights registered
- Released patent for 'AR Based Disaster Victim Location Indication System and Method'



International Media Festival Frankfurt 2014

Entered finals for Safety Prevention Competitive Section, 33 countries / 353 works, Contents of verified and completed education development capability



2018 SEOUL VR/AR AWARDS

2018 SEOUL VR/AR AWARDS
Awarded Industrial Contents Part



Continuous stories
Angoulême, France
International Animation Festival
Complimented for video and by other countries!

Education Animation on Comfort Women produced by Partner 20,000 audience within the terror threat of Japan Rightists



Angoulême animation view, standing ovation of European audience



KBS, MBC, SBS Broadcasted on 9 O'Clock News Coverage by Chosun Ilbo and JoongAng Ilbo



Quality Satisfaction Index Rank 1 Company and Selected as Innovation Technology Grand Prize

Quality Satisfaction Index Rank 1 Company and Innovation Technology Grand Prize, Hosted by Sports DongA Life Selected for 'VR Industry Division'





VR EXPO 2018 V-AWARD

VR EXPO 2018 V-AWARD 'M-GRIP',
award winner of the device category



K-SAFETY EXPO 2017

Korea International Safety & Security Expo 2017
제3회 대한민국 안전산업박람회

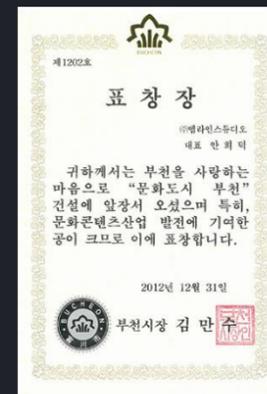
K-SAFETY EXPO 2017

Designated as VIP demonstration course
for Fourth Industrial Revolution Center
Trial by Prime Minister Lee Nak-yeon



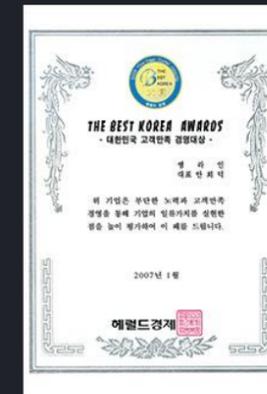
The winner of Contribution to Cultural Content Industry Development Award from the city of Bucheon

The award certificate for contributing to
the development of Bucheon and its
cultural content industry received from the
mayor of the city



THE BEST KOREA AWARD Korea Customer Satisfaction Management Grand Prize

Selected as the highest customer satisfaction
management company in THE BEST KOREA
AWARDS organized by the Herald Business



13

years of Experience Proved our know-how

2005

- Foundation of MLINE STUDIO

2007

- HERALD ECONOMY The Best Korea Management Grand Prize

2008

- Software Business Registration
- Korea Housing Finance Corporation E-Learning Contents
- National Tax Service Credit Card Tax Filing System Advertisement Animation
- Promotional Animation to be viewed in Presidential Archives Theater
- Geomdan Prehistory Museum Exhibition Animation
- 3D Maternity Education DVD for Namyang Dairy
- Products entering China
- Animation for Children in Judicial Branch History Exhibition

2009

- Registered for Video Production
- Moved main office to Nonhyeon-dong, Gangnam-gu
- Guui Purification Plant Promotion Hall 3D Animation
- Korea Employment Agency for the Disabled Happy Society official CF-video
- Road Traffic Authority 2D Animation for TV
- Yeongwol Cave Exhibition KIOSK Contents
- Anti-Corruption & civil Rights Commission Promotion Animation for e-People
- Yangyang Water Promotion Hall Water Powerplant KIOSK
- Namwon Jirisan Mountain Natural Botanical Garden Wild Flower KIOSK
- Donggang Fresh Water Fish Eco Center KIOSK
- Gimcheon Folk Agricultural Relic Pavilion Promotion Animation
- Korea National Council of Consumer Organization GM Food Promotion Video

2010

- Permission of Corporate Affiliation Research Center
- Ministry of Foreign Affairs and Trade System Manual e-Learning Contents
- Ganghwa Historical Museum Exhibition video
- Security Service G20 Security Safety National Promotion Animation
- Samsung Seocho Promotion Hall Plant First Promotion Animation
- The Korea Chamber of Commerce and Industry's Distribution Standard Code Education Promotion Animation
- 4-Sided Multi-Screen Independence Video of Independence Hall Screen 5
- Telescope 3D Promotion Video for Sanhwa Marine Dock
- Iksan Community Service Center Promotion Animation
- Korea Internet & Security Agency DNSSEC Promotion Animation
- Tanhwa Plant 3D Simulation
- Standard Association 'Standard Specification' Promotion Animation

2011

- South Korea Security G20 Nuclear Security Summit Promotion Animation
- Korea Educational Development Institute North Korean Refugee Adolescents Understanding Education DVD
- Shadow Animation for Hansol Paper Museum Exhibition
- Promotion Animation for Gwangjin-gu Office 'Pedestrian-Friendly Street'
- Venture Korea's Venture Company Award 3D Intro Video
- Ministry of Foreign Affairs and Trade "Overseas Safety Traveling 4 Stages" 3D Animation
- 2011 Daegu World Championship in Athletics Photo Wall 3D Video
- Animal and Plant Quarantine Agency Korea Education Animation
- Promotion Animation for Korea Trade Investment Promotion Agency (KOTRA)
- SK Chemical Prevention Vaccine Promotion Animation
- Gyeongsangbuk-do Arboretum 3D Exhibition Animation

2012

- Changed to Corporation
- Awarded for Contributing in Development of Cultural Contents Business in Buecheon City
- Animation Series for Korea Occupational Safety and Health Agency Industrial Disaster Prevention
- National Youth Policy Institute Multi-Cultural Family Education Animation
- Korea Educational development Institution "North Korean Refugee Adolescents Understanding Education" Animation
- North Korean Refugee Adolescents Support Center's North Korean Refugee Understanding Education Animation
- Cheongwadae (Blue House) G20 Nuclear Security Summit Promotion
- Intel Core 3rd Generation i5 Promotion Animation
- 4 Major Rivers Promotion Animation for Korea Rural Community Corporation 'Our River, Our Farms'
- ULSAN PETROGLYPH MUSEUM 3D Animation development
- Yeongcheon Imgoosewon Confucian Academy Main Exhibition Video
- Po Eun Jeong Mong-ju Animation
- Korea Forest Service Forest Fire Prevention 3D animation
- NHN Naver "Online Keyword Advertisement" Video
- Namhae District Korea Coast Guard Water Park Safety Training Animation
- Developed Children Sexual Harassment Prevention Training with Good Neighbors and Jeongkwangjang
- National Health Insurance Company Hypertension - Diabetes Management 3D Promotion Animation
- National Geographic Information Institute "Space Land Surveying Observation Technique" Animation
- Ministry of National Defense's Military Personnel Mind Training Animation

2013

- Women's Rights Institute's Family Violence Prevention Animation
- Gangwondo Natural Environment Research Park 3D Promotion Animation
- Korea Disabled People's Development Institute Animation
- Suwon City Hall Promotion Animation
- National Institute of Biological Resources Theater Advertisement Animation
- Animation for Type of Business/Occupation for Korea Occupational Safety and Health Agency

- Merino in Vietnam 3D Animation (Overseas TV CF)
- Educational Animation for Korea Environment Corporation Environment Love Promotion Hall
- Gangwon Agency for Digital Opportunity and Promotion's "Law and Art" Animation Series
- Ministry of Justice Animation Book
- Anmyeondo Island Jurassic Museum Theater Animation
- Jeju Forest Reserve Museum Animation
- Ministry of Justice's Law and Order Theme Park Cyber Library Animation
- KIA MOTORS Global Facebook Event Flash Game
- Supreme Court's Court Exhibit Hall animation for Children Law Experience Center
- Changseong Soft Gel Production Process 3D Simulation Video
- SK CC KDB Life "About Next-Generation Project" Animation
- Heart to Heart International Disabled Children Perception Change Animation
- Seodaemun Prison History Hall 3-Sided Video for Yu Gwan-sun Memorial Hall

2014

- [France Angoulême Animation Festival Exhibition] Ministry of Gender Equality and Family Comfort Women Animation
- Chungcheongbuk-do Danyang-gun Natural Cave 4D Rider Animation
- [3D Dimensional] National Center for Korean Traditional Performing Arts e-Korea Classic Music Academy 3D Animation
- Gangwondo Education Office Promotion Video
- Fair Trade Commission Promotion Animation
- Produced SK Enean ENC Animation MV
- Produced promotion animation for Ministry of Security and Public Administration Public Official Examination
- Produced promotion animation for Korea Seed & Variety Service
- Produced Motion Info-graphics for Hyundai Motors Blue Members
- Produced animation contents for experience in National Library for Children and Young Adult
- National Election Commission Multicultural Family Local Election Animation
- Seoul City I-WILL Center Smart Phone Addiction Prevention Animation
- Army Headquarters Mind Training Animation <Great Commander of Warfare, Jeong Ki-ryong>
- Korea Asset Management Corporation KAMCO Animation
- Hyundai Mobis CEO Letter Video
- KIA MOTORS Guide Animation
- Ulsan Hyundai Avatar Animation
- Korea Environment Corporation 3D Animation TV CF
- Prime Minister Affiliation <6.25 Abductee Truth Commission> Education Animation
- Women's Rights Institute Family Violence Prevention Contents

2015

- Produced 3D Animation for Changnyeong Jackrabbit Music Hill
- Developed VR Virtual Experience Safety Contents [Safe Line]
- Produced Experience animation contents in 2015 for National Library for Children and Young Adult

- KT Olleh GIGA Home Fitness Promotion Contents
- PRAIN YU-HAN-KIMBERLY Breast-feeding Promotion Contents
- Harim Yonggari Chicken Promotion Contents
- Met Life Promotion Contents
- Ministry of Personnel Management Minwon24 Promotion Contents
- Green Umbrella Child Fund Korea Promotion Contents
- Gyeongbuk University Hospital Cardiovascular Disorder Center Promotion Contents
- Ministry of Security and Public Administration Official Exam for Service Contents
- Ministry of Gender Equality and Family e-Children Promotion Contents
- Produced education animation for children cardiopulmonary resuscitation of Children Home and Safety Mutual Aid
- Children Food Safety Experience Center's Food Safety Animation
- Produced "Asia Hall of Culture Story Sea" Animation
- Produced Korea Children's Safety Foundation Traffic Safety OX Quiz Program
- Produced Central Infant Care Support Center e-learning Contents
- Good Neighbors Family Drawing Letter Contest 3D Animation
- Produced Gurye-gun Promotion Character 3D Animation
- Produced Marine Headquarter Children's Water Park Safety Accident Prevention Training Video
- Rural Development Administration's Farm Fair Travel Animation
- Central Election Commission 429 By-election Promotion Animation
- Produced Redrover Water Love Exhibition Education Animation

2016

- Produced 3D Animation for National Safety Broadcast of Ministry of Public Safety and Security Early Childhood Subject
- Signed contract for Xincal Safety on VR Contents exportation to China
- Produced 3D Video for Busan Regional Office of Oceans and Fisheries Youngdo Lighthouse Video Experience Center
- Developed VR 4D Experience Contents for Internet Ethics Experience Center
- 2016 Venture Start-up Competition : Participated in VR Contents Experience Contest
- KINTEX South Korea Safety Industry EXPO : Minister of Public Safety and Security VR Contents
- COEX International Safety and Health Exhibit: Official Demonstration in Safety and Health Agency Booth
- Produced 3D Animation for National Safety Broadcast based on Ministry of Public Safety and Security
- Produced 3D Video for Video Experience Center in Busan Youngdo Lighthouse
- Acquired Direct Production License for Video Production Service
- Video Contents for Gyeonggi-do Disaster Safety Headquarters Infant and Children Safety Training
- Produced Video Education on Mind Training for Army Headquarters
- Produced educational animation for improvement on language culture of Marine Headquarters
- Produced animation in Jeju Language for Deuleom Citizens by Education Office of Jeju
- Produced HACCP Promotion video for breeding steps by Ministry for Food, Agriculture, Forestry and Fisheries
- ING LIFE e-Learning Development
- Crayon Hobby Hanji Animation
- AD POWER Wattman Promotion Animation
- Food, Agriculture, Forestry and Fisheries Education Culture Intelligence Service Infographic on the investigation for agricultural products information
- Animation for Annals of Joseon Dynasty - Hwanghee
- Good Neighbors Cooperation Animation
- Bebe Forest Promotion Video

- Seongbuk-gu Children's Meal Service Management Support Center Flash Game
- Daiichi Car Seat Promotion Video
- Incheon Seo-gu District Children's Meal Service Center Meal Manners Song
- SK E&C King's Spy Animation

2017

- Selected "2017 South Korea Quality (Consumer) Satisfaction Index Rank 1 Company and Innovation Technology (Product) Grand Prize"
- Developed Experience Program for Adhesion, Crash, and Accidents by Daewoo Shipbuilding and Marine Engineering
- Established Education System for VR Safety Experience by Korea Midland Power Co., Ltd.
- Established Safety VR Experience Center System for Research Center of Daegu Gyeongbuk science and technology center
- Development contents and established equipment for VR Railroad Safety Experience Training for Korea Railroad Corporation
- VR Experience Contents Development for Linde Korea Hydrogen Bicycle
- Participated in 3rd South Korea Safety and Industry Expo - KINTEX 2017
- Established contents and equipment for VR safety experience of Seoul Metro
- Selected as 2018 ICT Convergence Industry 4.0s Technology Development Business
- Developed VR Safety Inspection Training Contents for Korea Expressway Corporation
- Established & Developed VR Contents and system for Samsung Electronics Environment Safety
- Produced Smart Safety VR Experience Safety Training for POSCO ICT
- Produced VR Service Consultant Training Contents for KIA
- Participated in KINTEX 2017 PlayX4 (2017.05.25~28)
- Participated in COEX 2017 International Safety Expo (2017.07.03~06)
- Developed 360 VR Application for KWM Company
- Additional exportations of VR Contents to China (Xincal Safety)
- Selected as VR Industry Small and Medium Company Production Support Business by Korea Creative Contents Agency
- VR Contents Frontier Project selected by Korea Creative Contents Agency

2018

- Developed Safety Training VR for Samsung Engineering
- Established Samsung Electronics VR Safety Experience Center
- Produced and established VR promotion video and equipment for Yeosu Gwangyang Port for Yeosu Gwangyang Port Construction
- Developed Harmful Chemical Substance Safety Training VR for Korea Chemicals Management Association
- Planning to participate in 4th South Korea Safety and Industry Expo - KINTEX 2018
- Participated in Japan Industry, Safety, and Health Expo TOKYO 2018
- Participated in COEX 2018 International Safety and Health EXPO
- 2018 Advanced Convergence Game Contents Production Support Project selected by Korea Creative Contents Agency
- Developed 2018 Future Occupation Experience VR Contents for Korea Employment Information Service
- Developed animation contents for personality training for children by Gyeonggi-do District Office
- Participated in COEX Seoul VR AR EXPO 2018
- Awarded SEOUL VR/AR Awards Industrial Contents Division
- Developed 360° VR Contents for Situation judgment test for Lotte Training Institute
- Signed DNA for VR Company 'Go Touch VR'
- Produced SK HYNIX D Ram VR Contents
- Produced Animation Contents for Gimcheon Law and Culture Training Center
- Developed Welding and Repair Safety Accident Prevention VR Contents for refrigerators of Samsung Electronics Service
- Established VR Experience Center Education Contents for Korea Children's Safety Association Songpa Safety Experience
- Developed VR safety training system for Hyundai Heavy Industries Co., Ltd.
- Jeju The Oreum County One Cyber Model House VR

"Felt sympathy through VR experience"

- Staff of Korea Midland Power Co., Ltd. -

"Best campaign which was catchy with the code of our company while it was trendy"

- Staff of Shake Shack Burger -

"I was impressed by the story and interpretation bringing out sympathy"

- Staff of Ministry of Gender Equality and Family -

partner companies share our know-how



- Korea Midland Power Co., Ltd.
- Daewoo Shipbuilding & Marine Engineering
- POSCO ICT
- Seoul Metro and etc

Actual examples of applying products Individual or training center system .
VR safety training in construction and manufacturing sites.
executed training for related employees.

18.07.18 **Korea Midland Power Co., Ltd.**

<https://www.boannews.com/media/view.asp?idx=71306>



17.10.26 **Seoul Metro**

<https://blog.naver.com/seoulmetro01/221125600280>



18.07.19 **Daewoo Shipbuilding and Marine Engineering**

<http://news.heraldcorp.com/view.php?ud=20180717000484>



17.06.19 **POSCO ICT**

<http://www.kbmaeil.com/news/articleView.html?idxno=417626>





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01

VR Experience for Construction Site Scaffolding Accident

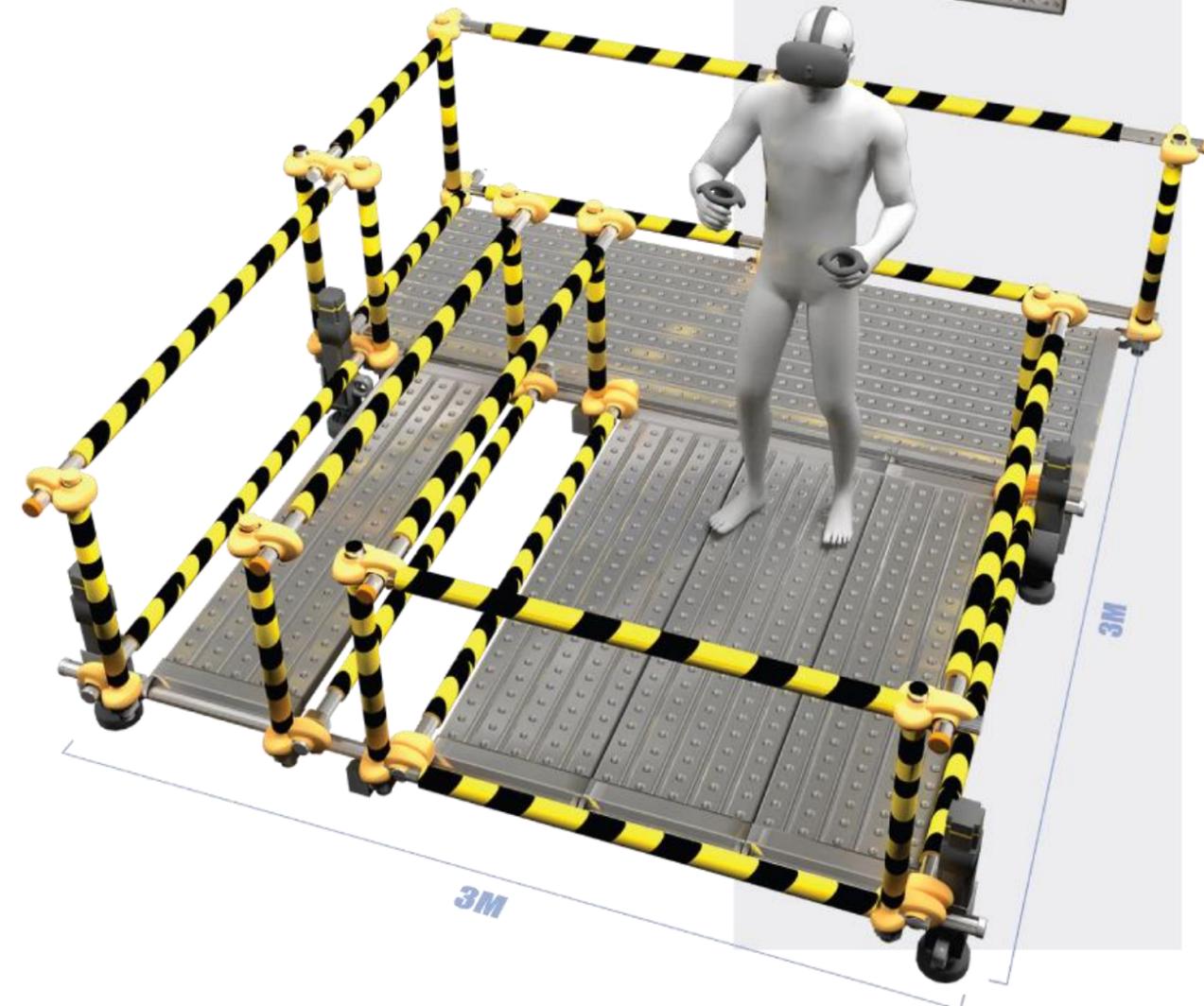
HMD	Equipmen	Experience time
Vive, Oculus, Odyssey	Walking attraction	3 min

VR contents to experience the feeling of crash that occurs due to corrosion of scaffolding structures on construction sites, It is designed with copper wire to match actual work to maximize VR effect

Size	3m×3m×1.5m(H)
Passenger	1 person
Weight	200kg
Power required	3Kw
Age	Above 12 years old
Motion method	Actuator

Walking attracton

This is a VR device designed to feel the vibration, shaking and falling by attaching the actuator to the scaffolding designed to match the movement of the actual construction site.





Aerial work
Falls



Loading work
Stricture



Transportation work
Overturn



Aerial work
Falls



Sealing work
Choking



Electric mechanism work
Electric shock



Road work
Crash



Welding work
Fire

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02

8 Kinds of VR Experience for Plant Sites

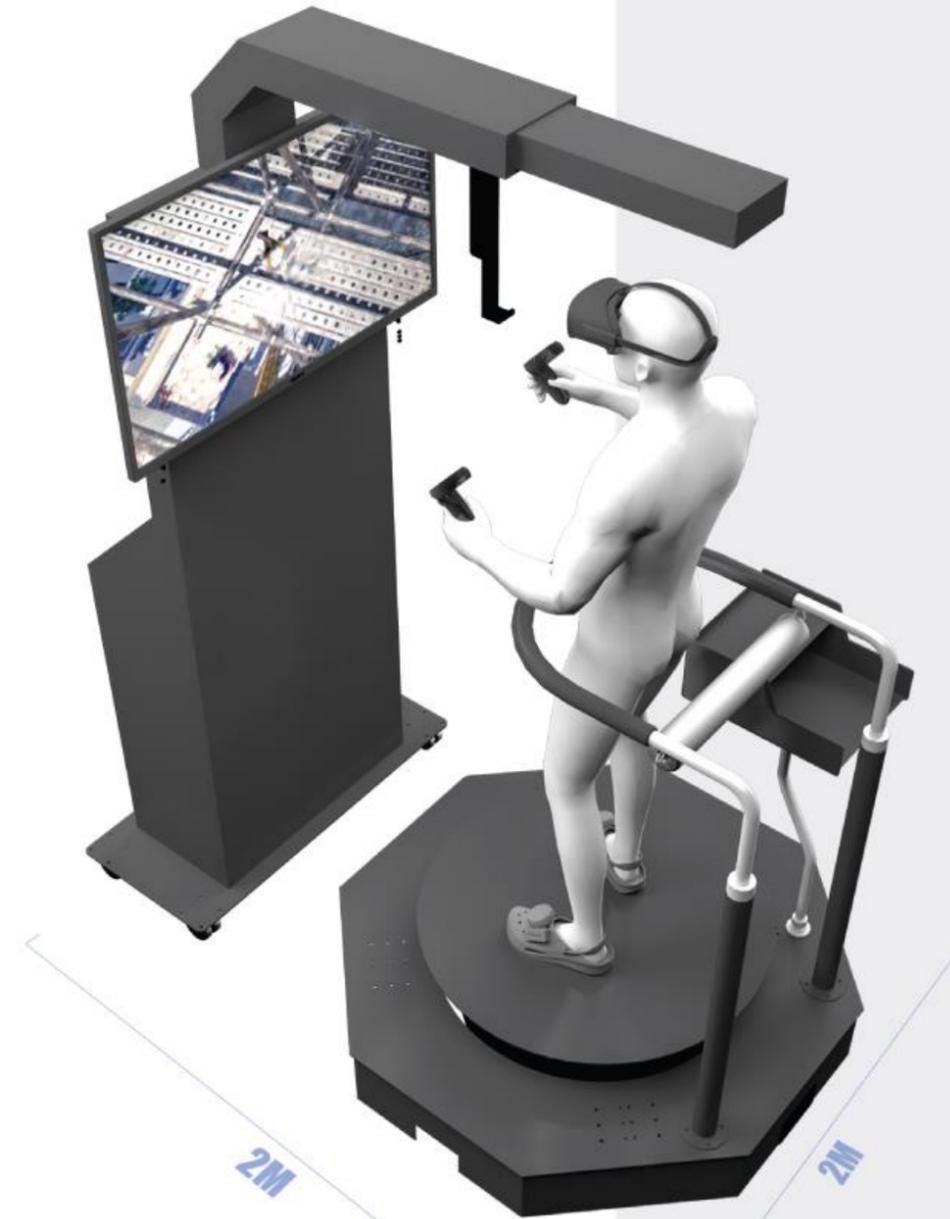
HMD	Equipmen	Experience time
Vive, Oculus, Odyssey	Standing Simulator	3 min x 8 Kinds

VR safety training contents that experience major accidents that occur most frequently in plant sites and check risk factors

Size	1.2m×1.2m×1.3m(H)
탑승인원	1 person
Passenger	200kg
Power required	1.2Kw
Age	Above 12 years old
Motion method	Actuator

Standing simulator

The VR device consists of a motion scaffold that can feel up, down, vibration, shock connected to an accident experience, and a safety zone that prevents the experimenter from falling.





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03

5 Kinds of VR Experience for Cinematic Accident on Plant Sites

HMD	Equipmen	Experience time
Vive, Oculus, Odyssey	Standing Simulator	3 min x 5 Kinds

Cinematic VR safety training contents that are experienced from the perspective of the injured from the cause of the accident to the moment of occurrence by applying the actual event-based story

Size	1.2m×1.2m×1.3m(H)
Passenger	1 person
Weight	200kg
Power required	1.2kw
Age	Above 12 years old
Motion method	Actuator

Standing simulator

The VR device consists of a motion scaffold that can feel up, down, vibration, shock connected to an accident experience, and a safety zone that prevents the experimenter from falling.



04

10 Kinds of VR Experience for Plant Site Risk Assessment

	
HMD	Experience time
Vive, Oculus, Odyssey	3 min x 10 kinds

The VR safety training contents to find out as many accident risks as possible on the plant site within set time



Fire work **Welding**



Heavy Equipment Work **Tower crane**



Fire work **Oxygen cutter**



Heavy machinery work **Portable crane**



Electrical work **Distribution board**



Sealing work **Outside**



Electric work **High speed metal cutting**



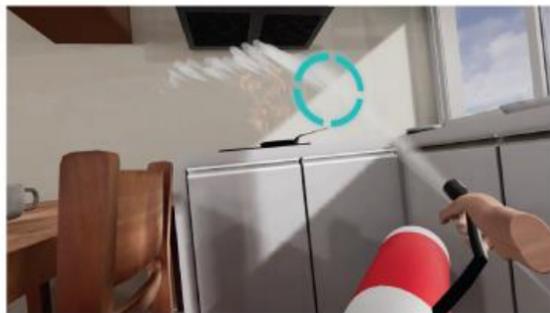
Sealing work **Inside**



Aerial work



Excavation work



All-in-one wireless HMD for mobile training and portability

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05

Fire Fighting and Fire Extinguisher Safety Training VR



HMD

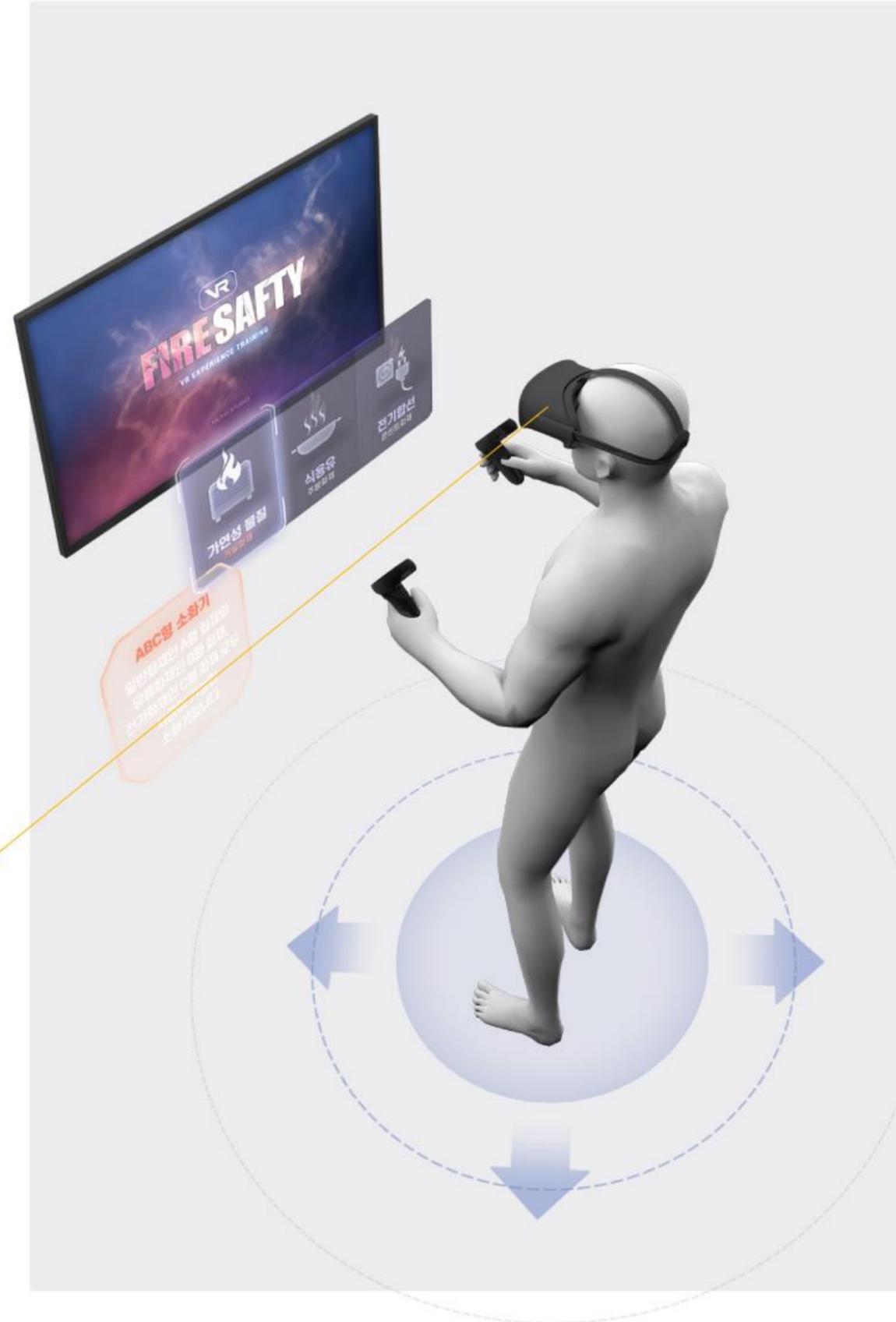
Vive,
Oculus-
Quest



Experience
time

3 ~ 5 min

Fire fighting and fire extinguisher VR training contents consisting of kitchen fires, office electrical fires, and bedroom fires. You can practice first aid firefighting through training on how to use the proper fire extinguisher correctly.



06

Fire Drill Education VR



HMD

Odyssey,
Oculus
Quest



Experience
time

5 min
x
2 kinds

Fire drill VR contents for general citizens and fire safety managers. Trainees should respond quickly according to the fire response manual within the golden time set in the fire situation at the apartment and evacuate safely. It is characterized by realistic and tense play.

Episode 1

Apartment fire drill

- Fire occurrence
- Situation notice -119 Report
- First aid firefighting (Fire extinguisher)
- Select evacuation method
- Front door/Light partition/Descending life line
- Evacuation Success

Episode 2

Public facility fire drill

- Fire occurrence
- Situation notice
- First aid firefighting 1 (Fire extinguisher)
- First aid firefighting 2 (Fire hose station)
- Evacuation guidance
- Evacuation success
- Turnover to firefighter

Apartment fire drill



01. Fire occurrence

Public facility fire drill



01. Situation notice



02. 119 Report



02. First aid firefighting1 (Fire extinguisher)



03. Select evacuation method



03. First aid firefighting2 (Fire hose station)



04. Evacuate using a descending life line



04. Turnover to firefighter

07

Immersive experience for correct weight-carrying



Media



Experience time

Kinect, Azure Kinect

3 min

Immersive experience content that trains the correct method of carrying weights using motion recognition sensors. It consists of video education, Immersive education, and OX quiz.

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01. Player recognition test



05. Evaluation of Experience Results



02. Watch training video



06. OX quiz guide



03. Posture experience guide



07. OX quiz



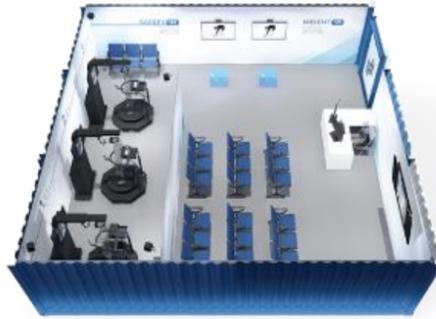
04. Posture experience



08. Evaluation of OX quiz results

08

Experience Building & Management System



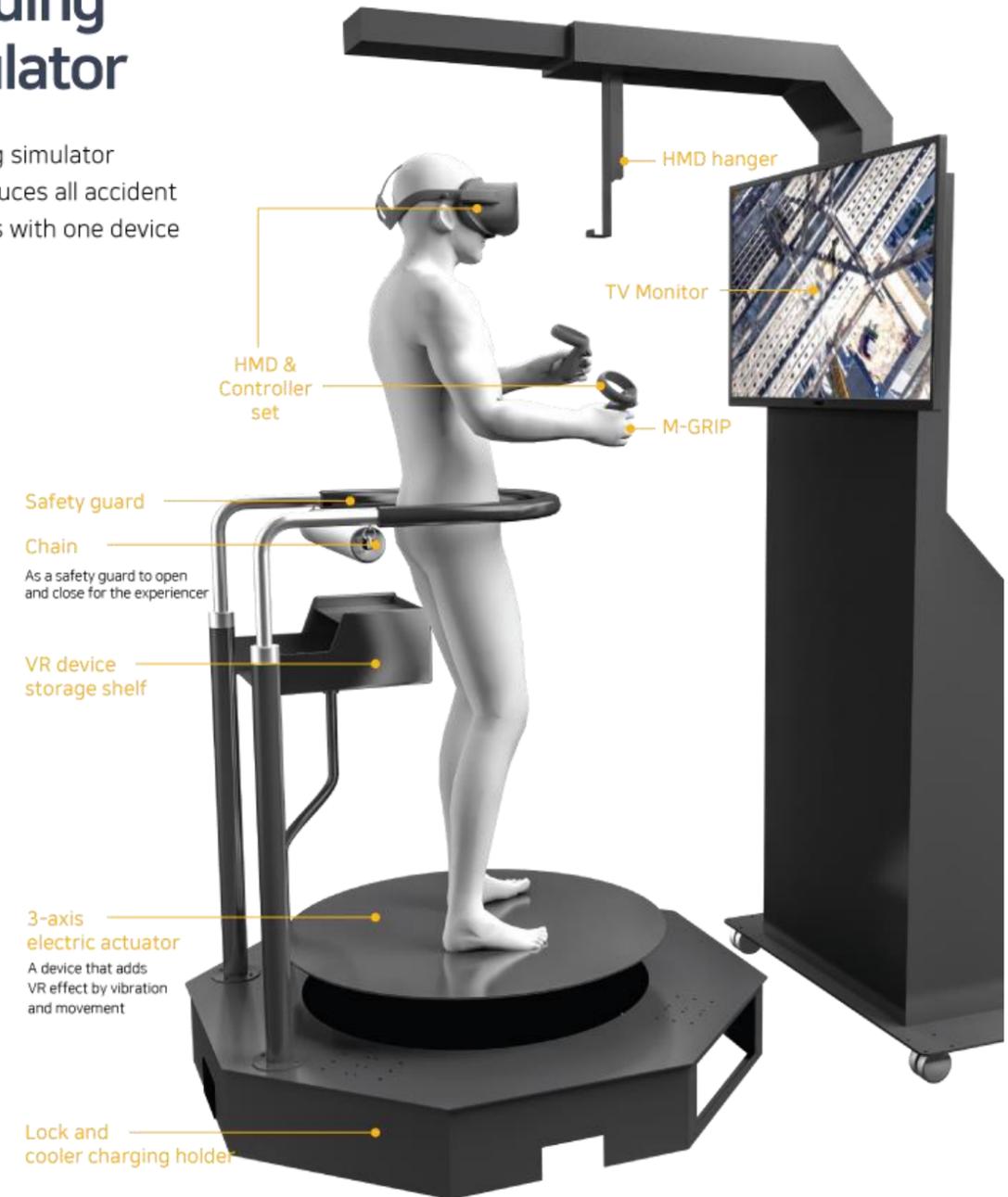
Integrated operation management system for convenience of construction of experience site and operation management



09

Standing Simulator

4D standing simulator that reproduces all accident experiences with one device



- HMD hanger
- TV Monitor
- HMD & Controller set
- M-GRIP

- Safety guard
- Chain
As a safety guard to open and close for the experimenter
- VR device storage shelf

- 3-axis electric actuator
A device that adds VR effect by vibration and movement

- Lock and cooler charging holder

M-GRIP

add a sense to VR

Wearable device that utilizes cold & heat element and near-conducting pads to provide a wide range of sensory effects, such as fire, electric shock, stabbing, etc.

SPEC

Size	80 x 140 X70 (H)mm
Weight	200g
Interface	Bluetooth SPP or HID
instantaneous maximum power	30W
idle consumption power	0.6W
Response speed	10ms

Main Body

2000mA Li-Po Battery Embedded /
Wireless communication with master device
with high performance Bluetooth

cold & heat element ThermoReal

Using the Tegway's ThermoReal element,
Quickly and realistically conveys cold and heat



Slide Joystick

Manipulate user interface and
move characters

Near-conducting pad

Use frequency modulation technology to
transmit electric shock, stabbing, shock, etc.



Pressure pad

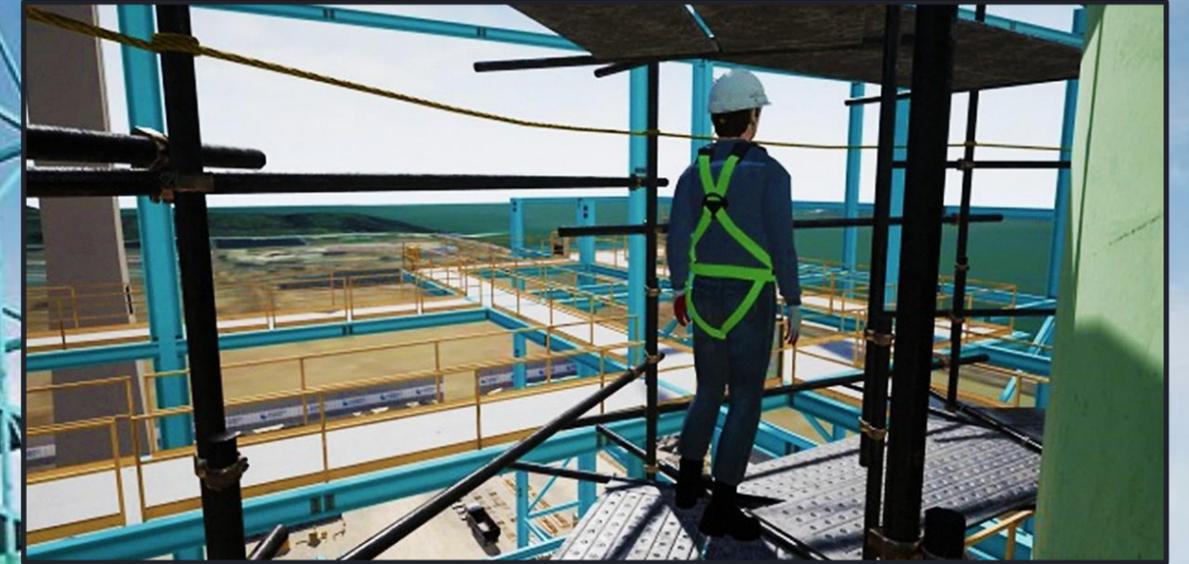
It can recognize the degree of
grip force and interact closely
with things in the virtual world

VR

Korea Midland Power Co., Ltd.

VR Contents for accident experience & Risk Evaluation on Power Plant Construction Sites

Composed of risk evaluation parts on site and parts for focused safety experience in the VR contents for Power Plant Construction Safety Individual and 4D Simulator with actual scenarios based on actual cases to process training and manage comprehensively for all trainees within the experience center with the operation and management SW.





Daewoo Shipbuilding and Marine Engineering

Establish safety experience center and produce VR Contents to experience accidents on Shipbuilding Sites

Raise safety awareness through VR experience on the various accidents and helps to be aware of the safety rules shown in VR to be applied in actual site. The system composes safety work environment and has contents for safety training to prevent recurrence of accidents.





Seoul Metro

Subway Disaster Evacuation Training Contents and Citizen Safety Experience Center

Experience actions of users when fire occurs inside the subway station, on the subway, on the platform, and in the waiting room
Establish citizen safety experience center operated for citizens





KIIA MOTORS GLOBAL

Service Manager and training 10 Step VR Contents

Experience on the procedures on how to respond to customer service in the environment established in VR Training is being processed on global service managers of each country



Own Brand



Own Brand

Falling accidents safety training VR Contents

Connected with 4 axis electric
cylinder simulator,
all-in-one contents with actual
contents,
experience safety accidents and
fallen objects and falling
experience in construction sites

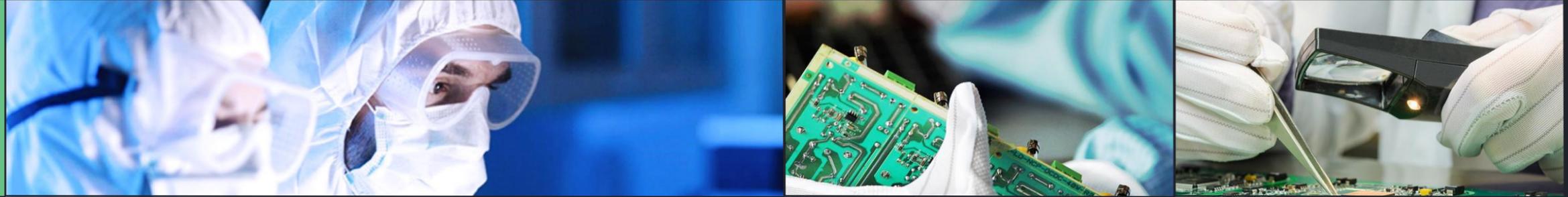


VR/AR

Safety Training / Practical Training / Entertainment / Game

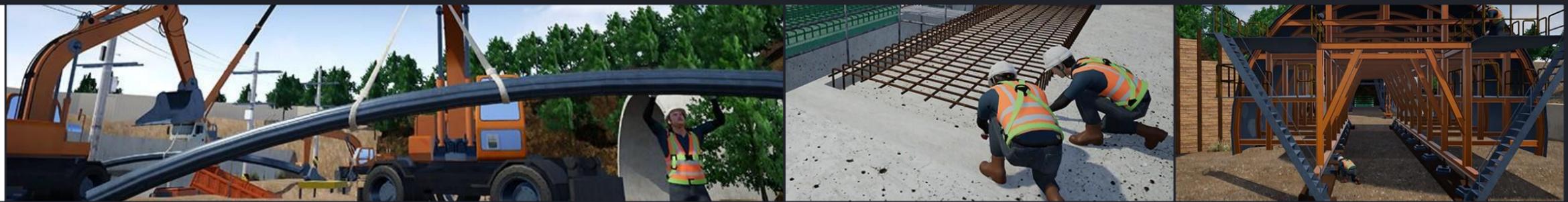
Samsung Electronics

Established and produced VR contents and safety experience center for Environment Safety Experience



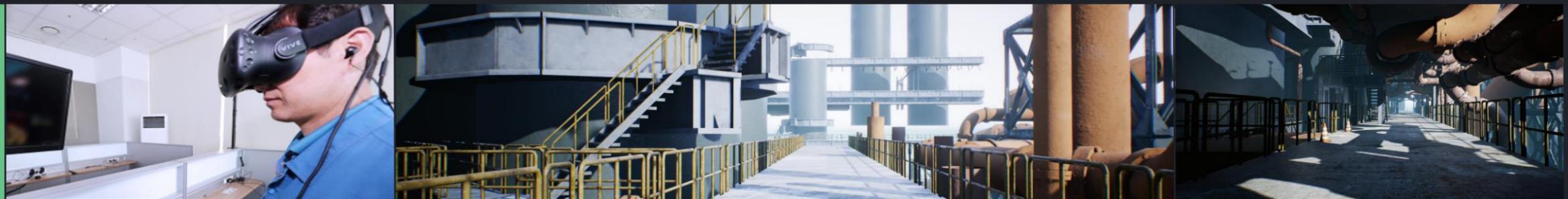
Korea Expressway Corporation

Road Construction Safety Management Supervising/ Risk Evaluation VR Contents



POSCO

Produced accident experience VR contents and established safety experience centers



Daegu Gyeongbuk Science Technology Institute

Research Center Safety Training VR Contents



VR/AR

Safety Training / Practical Training / Entertainment / Game

Hyundai Heavy Metals

Produced VR safety training contents per work within the site



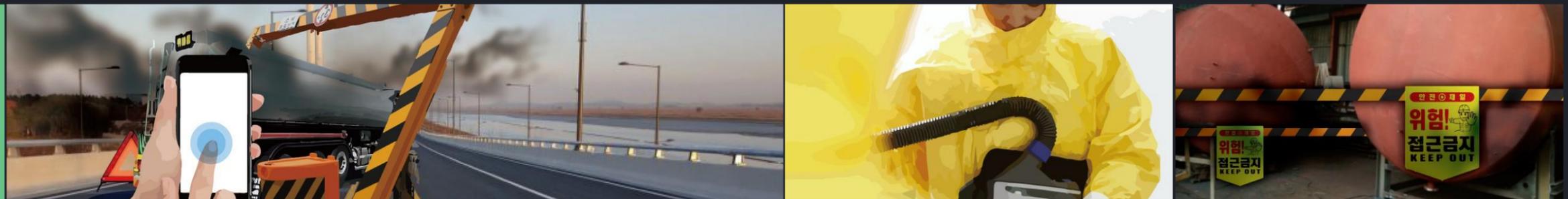
Samsung Electronics Service

Developed safety training VR contents for refrigerator welding and repair accident prevention



Korea Chemicals Management Association

harmful chemical substance safety training contents



Korea Railroad Corporation

Established safety training VR experience center for workers in railroad equipment and construction field

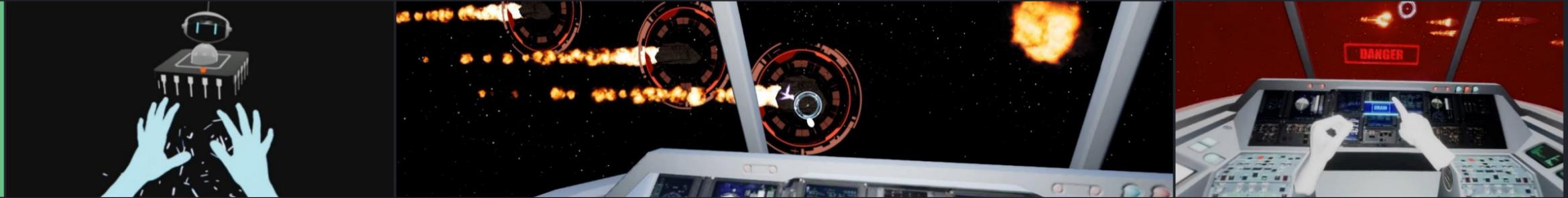


VR/AR

Safety Training / Practical Training / Entertainment / Game

SK Hynix

Production of educational contents on the structure and the working principle of DRAM



Yeosu port construction project

Development of VR promotional contents for Yeosu-Gwangyang Port



Korea South-East Power Co. Ltd

Establishment of VR experience system for its safety training center



Korea Expressway Corporation

VR for no-safety belt auto accidents, and preventive campaign AR for secondary accident on highway



VR/AR

Safety Training / Practical Training / Entertainment / Game

Pumpkin Pop

Halloween 4D VR
Rail Shooting Gun Game



Korea Children Safety Foundation

developed VR Contents for training
and safety rules on fine dusts



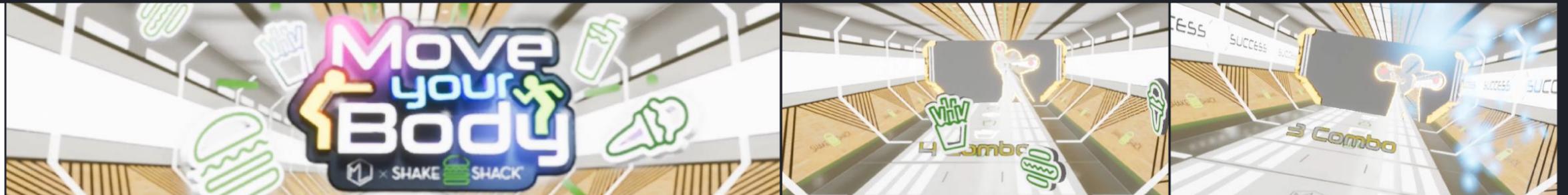
Korea Employment Information Service

Future Occupation Training of 4th
Industrial Revolution (VR)



MOVE YOUR BODY

Developed passing through walls
contents on VR for tangible type



VR/AR Interior / Promotion / Exhibition

Jeju The Oreum County One
Cyber Model House



Linde Korea
Hydrogen Bicycle VR Experience



Hamyang Museum
AR Experience Contents



Korea Information Society Agency
Internet Ethics Experience Center
VR Experience Contents



ANIMATION

Advertisement / Promotion / Education / Exhibition / Entertainment

National center for Korean Traditional Performing Arts

Promotion animation for Korean traditional music



Danyang Cave

4D animation



Ministry of Public Safety and Security

Infant and Children Safety Broadcast



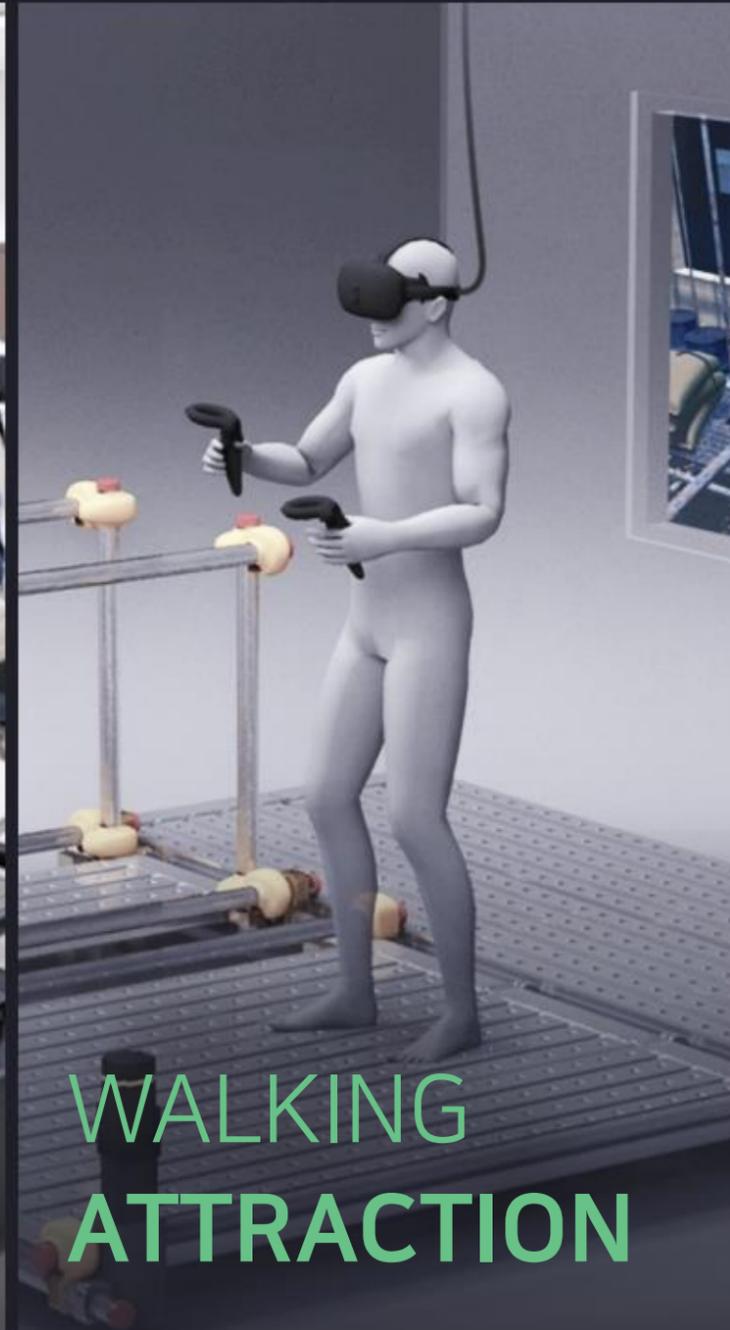
Ministry of Gender Equality and Family

Comfort Women Animation



H/W & SYSTEM

4D SIMULATOR / WEARBLE / Immersive Controller / Operation SW

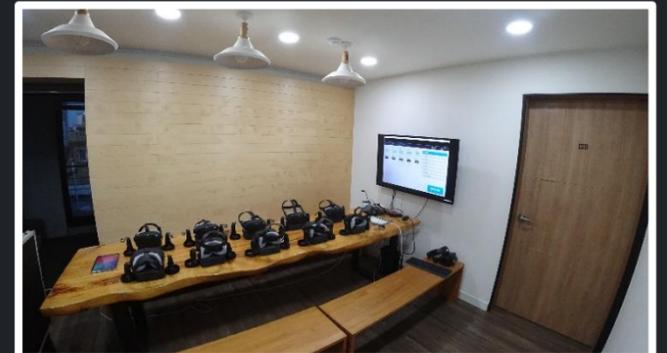


Wireless VR group training completed with just one carrier.

VR CARRIER makes VR education easy and convenient. It has a high-capacity battery capable of high-speed, multi-charging anywhere and can control multiple HMDs wirelessly even in an environment without the Internet. It is also designed in the form of a carrier for complete mobile education.



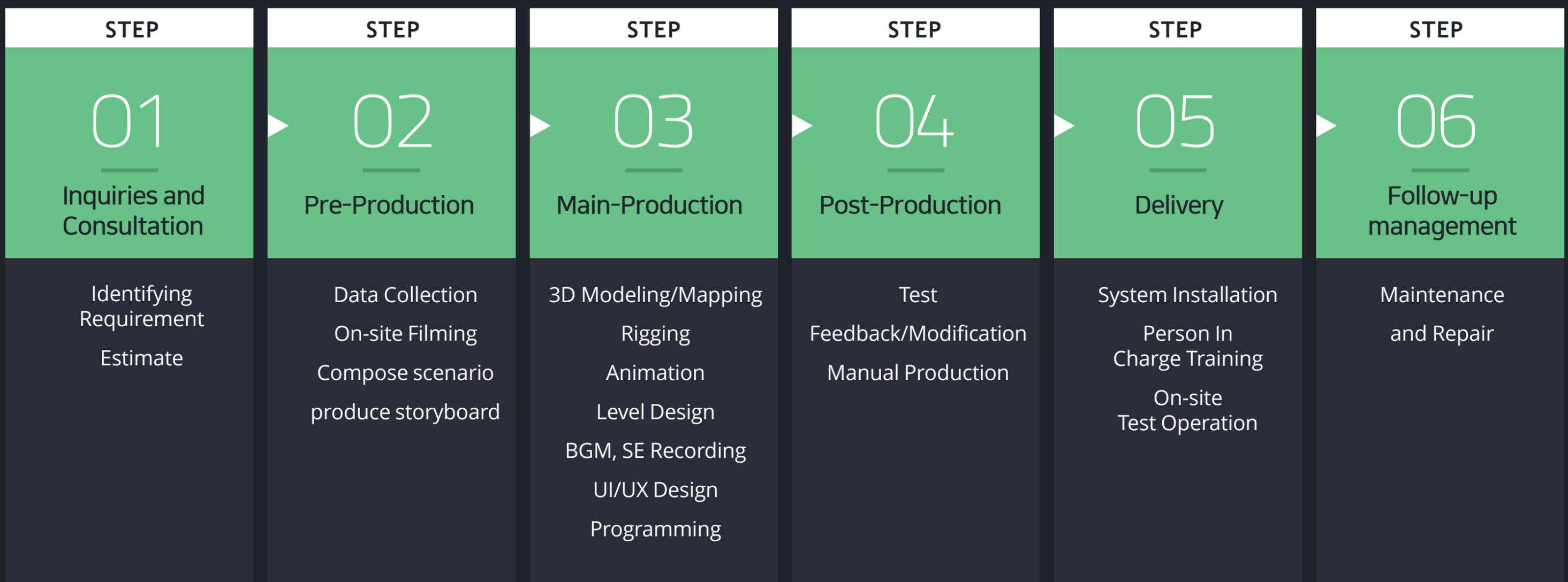
< Carrier Shape on Move >



- Full-Controlable Administrator Tablet
- Large battery with high speed multi-chargeable capacity
- Designed as a carrier-type package for mobility convenience
- 10EA package / 5EA package configuration by HMD quantity

Customized VR Contents

One-stop from planning to development on episodes that are needed for site and work per industry



※Going Side by Side in the case of developing separate HW or education site: Space/System Design, HW Production, Operating SW Development, Contents connection, and etc.

Leading Korea's Convergence VR Business Adding Experience to experience

국내 융합 VR 업계 선도... 체험에 체험을 더하다

☞ 박광하 기자 | 승인 2018.03.28 08:23

■ 안희덕 ㈜엠라인스튜디오 대표

- 안전교육-엔터테인먼트 연계
- 콘텐츠에 추락감전도 추가
- 패키지화선택 체험 '눈길'
- 기업시장 발판... 세계로 도약



'백번 듣는 것보다 한번 보는 게 낫다.'

정말 그럴까. 안전교육 관계자들은 "그렇다"고 말한다. 책상에 앉아 글과 도표로 가득한 교육책자를 보는 것보다는 안전교육 영상을 눈으로 보거나 실습을 통해 몸으로 경험하는 것이 교육 만족도·효용도가 높다는 것이다.

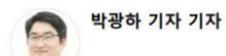
안전교육은 과거 활자화된 교재를 이용하다가 최근 추락이나 감전 등을 신체가 느낄 수 있는 융합 체험 교육이 관심을 받고 있다.

2005년도에 설립, 영상기술 기반 융합형 영상 콘텐츠 솔루션 전문기업 ㈜엠라인스튜디오는 이런 융합형 체험 교육 콘텐츠를 만드는 대표적인 기업이다.

엠라인스튜디오는 포스코ICT, 삼성반도체, 대우조선해양, 한국도로공사, 서울교통공사, 한국철도공사 등 다수의 대기업·공공기관 VR안전교육 콘텐츠 프로젝트를 수주했으며, 고객사로부터 콘텐츠에 대해 호평을 받고 있다. 이는 아직 초기 단계인 B2B2G VR 콘텐츠 시장에서 선도업체가 되기 위해 기술개발에 노력해 온 결과다. 아울러, 부설연구소에서 축...

"기업은 고객의 사용목적을 최우선으로 삼아 제품·서비스를 제공해야 하고 이것을 어기게 되면 고객의 만족을 얻을 수 없습니다. 하지만 기업이 이런 당연한 사실을 간과하는 경우가 있으므로 이를 유념하도록 하는 것은 아무리 강조해도 지나치지 않습니다." 안 대표가 얻은 경영의 정수(精髓)다.

저작권자 © 정보통신신문 무단전재 및 재배포 금지



박광하 기자

MLINE STUDIO, Showing Safe Line Series and Subway Fire Evacuation through VR



[Made in Korea] 엠라인스튜디오, VR 활용한 지하철 화재대피와 세이프라인 시리즈 선보

[유은정 2018-04-24]



엠라인스튜디오는 서울 VR AR 엑스포 2018에 참가해 자사의 VR 기술을 활용한 지하철 화재대피와 세이프라인 시리즈를 선보였다.

엠라인스튜디오는 창의적인 기술개발을 바탕으로 솔루션 및 홍보 콘텐츠 전문 제작사다. 자사의 VR 기술은 3D CG 기술 기반의 3D 가상공간에서 실제상황처럼 걸어다니며 멀미 문제를 최소화하고 다양한 하드웨어 연동을 통해 최상의 몰입감을 갖고 있는 점이 특징이다. 이번 쇼에서는 지하철 화재대피와 세이프라인 시리즈를 선보였다.

지하철 화재대피는 지하철 역사나 승강장, 열차내에서 화재 등 각종 재난발생시 직원과 시민들이 위기상황에 대처할 수 있는 능력과 안전하게 대피할 수 있는 방법을 습득하는 체험형 교육훈련 콘텐츠다. 현재 지하철7호선 반포역 B1에서 재난 가상현실을 이용한 시민안전체험관을 운영중이다. 세이프라인 시리즈는 VR로 구현한 산업현장에서의 다양한 사고를 가상 체험함으로써 안전의식을 고취시키고 재발을 방지할 수 있는 교육 콘텐츠다. 풀버전은 2018년 중반기 출시 예정이다.

MLINE STUDIO showing physical VR by using Korea's first temperature difference and sense of pain



엠라인스튜디오, 국내최초 온도차와 통각을 활용한 체감형VR 선보인다

발행일 : 2017.11.08



<사진 설명> 엠라인 스튜디오의 부스에서 VR 안전 콘텐츠를 체험하는 체험자들의 모습

가상현실(Virtual Reality) 벤처기업 ㈜엠라인스튜디오가 작년에 이어 2번째 참가하는 '2017 제 3회 대한민국 안전산업박람회'에서 한층 업그레이드 된 VR안전체험 콘텐츠를 선보인다.

이들은 지게차 사고, 낙상 등 산업안전과 관련된 다양한 분야에서 VR 콘텐츠와 가상체험시스템을 제작해 온 전문업체로서 지난 2016년부터는 대표적 제품인 SAFE-LINE을 중국 '신장안전'에 수출하고 있으며 교통공사, 도로공사, 코레일 등 공공기관의 VR안전교육 프로젝트를 진행하고 있다. 뿐만 아니라 삼성반도체, KIA, 포스코의 VR체험관을 구축하는 등 업계를 이끌어나가고 있는 유망기업이다.

이번 전시회에서는 추가 보완하여 제작한 SAFE-LINE을 비롯하여 '온도차와 통각을 활용한 체감형 감전사고 VR' 등 특수센서를 활용하여 차가움, 뜨거움, 심지어 고통까지 체감할 수 있는 재해사고 콘텐츠를 선보일 예정이다.

업체는 이러한 건설현장 안전사고 콘텐츠를 이외에도 제조업, 실험실 등 분야별 현장 맞춤형 VR 안전교육 콘텐츠를 제작하고 있어 향후 VR안전교육시장에서의 활약이 기대되는 바이다.

업체 관계자는 "이번 안전산업박람회 참가를 통해 VR 산업 안전 콘텐츠의 가능성을 더 많은 사람에게 알릴 계획이다. 지금까지 자사가 개발한 VR콘텐츠와 솔루션을 한자리에서 경험할 수 있으며 나아가 산업안전교육 VR콘텐츠를 대표하는 기업으로 자리매김할 수 있는 기회가 될 것"이라고 전했다.

2017 제 3회 안전산업박람회는 11월 15~17일 일산 킨텍스에서 개최된다.

전자신문인터넷 이종민 기자 (jongmin1@etnews.com)

[Photo] Prime Minister Nakyoon Lee experiencing construction site falling accident



제3회대한민국 산업안전박람회 VIP시연코스 지정

[포토] 건설현장 추락사고 체험하는 이낙연 총리

기사입력 2017-11-15 17:09:18. 폰트 + -



이낙연 국무총리가 15일 경기도 고양시 킨텍스에서 열린 대한민국 안전산업박람회에 참석해 VR 안전교육 개발업체 부스에서 건설현장 안전사고 시뮬레이션을 체험하고 있다.

안윤수기자 ays77@

Facebook of Prime Minister Nakyoon Lee





2017 South Korea Quality Satisfaction Index Rank 1 Company and Innovation and Technology Grand Prize 'Safe Line'... Seeking 'Zero' for accidents and disasters through virtual reality experience

2017년 대한민국 품질(소비자)만족지수 1위 기업 및 혁신기술(제품) 대상

각 산업 부문 별로 품질(소비자)만족과 기술혁신을 구현하여 미래성장 동력을 확보하고 글로벌 경쟁의 초석을 다져가는 중소기업의 품질 및 기술력을 조명하고자 본 지면을 마련하게 되었습니다. 2017년 대한민국 품질(소비자)만족지수 1위 기업 및 혁신기술(제품) 대상 을 주목하고 성원에 즈음해 향후 한국 경제의 주역으로 발돋움 할 것임에 대한 믿음을 대표하는 리딩 컴퍼니(Leading Company)로 도약하게 될 것입니다.

'세이프라인' ...가상체험으로 사고·재난 '제로' 추구

㈜엠라인스튜디오

아직 우리 사회는 산업 현장의 안전 사고, 교통사고, 재해, 재난 등 불의의 사고에 취약하다. ㈜엠라인스튜디오(대표 안희덕 <http://mlinestudio.kr> 02-999-7220)는 각종 사고나 재난의 다양한 징후와 증상을 사전에 생생하게 가상 체험토록 한 VR(가상현실)안전교육 콘텐츠 '세이프라인'을 개발, 보급하고 있다.

가상 체험을 통해 사고를 미연에 방지하는 '세이프라인'은 건설공사, 도로공사, 기간시설, 제조공장 등 안전이 중요시되는 산업현장에서 사고율을 저감시킬 수 있는 방안으로 관심을 모으고 있다. 이는 HMD를 머리에 착용하고 무선 컨트롤러를 사용하여 가상현실 속에서 실제와 흡사한 사고 상황을 체험할 수 있게 한다. 기존 동영상 위주의 주입식 안전교육 패러다임을 바꿀 만한, 획기적 내용이다. 오쿨러스, HTC바이브 등의 HMD하드웨어에서 구동되며, 가상의 상황을 어떻게 설계하느냐에 따라 시뮬레이터나 4D체어 등을 연동하는 시스템으로 제작하여, 현실감을 극대화하도록 했다.



㈜엠라인스튜디오는 인터랙티브 미디어 전문매체로서 영상 및 VR콘텐츠 전문가로 구성된 비주얼 커뮤니케이션 그룹이다. 지난 10년 이상 2D/3D애니메이션, 4D영상 기술을 바탕으로 산업, 생활, 어린이 등 다양한 분야의 안전교육 콘텐츠를 제작해왔으며 이러한 기반 위에 언리얼4 엔진을 접목하여 VR/AR/MR 기술을 축적해왔다. '세이프라인'은 그간의 기술역량이 집약된 성과물이기도 하다. 중국 베이징 정부청사 건설현장의 안전교육 체험관에 공급된 '세이프라인'은 현장에 방문한 시진핑 주석이 직접 시연하고 나서 극찬을 하기도 하였다. 금년에도 'ICT융합 industry4.0' 기술개발사업에 선정되고, 포스코, 삼성반도체, KIA, 한국 도로공사, 포스코, 삼성반도체, KIA, 한국 도로공사의 VR산업안전 교육콘텐츠 개발을 추진하는 등 기술력을 인정받고 있다.

HOME > 뉴스재널 > 미디어뉴스 > 포트뉴스

'세이프라인'...가상체험으로 사고·재난 '제로' 추구

최혜섭 기자 | 승인 2017.08.28 | 댓글 0

아직 우리 사회는 산업 현장의 안전사고, 교통사고, 재해, 재난 등 불의의 사고에 취약하다. ㈜엠라인스튜디오(대표 안희덕)는 각종 사고나 재난의 다양한 징후와 증상을 사전에 생생하게 가상 체험토록 한 VR(가상현실)안전교육콘텐츠 '세이프라인'을 개발, 보급하고 있다.

가상 체험을 통해 사고를 미연에 방지하는 '세이프라인'은 건설공사, 도로공사, 기간시설, 제조공장 등 안전이 중요시되는 산업현장에서 사고율을 저감시킬 수 있는 방안으로 관심을 모으고 있다. 이는 HMD를 머리에 착용하고 무선 컨트롤러를 사용하여 가상현실 속에서 실제와 흡사한 사고 상황을 체험할 수 있게 한다. 기존 동영상 위주의 주입식 안전교육 패러다임을 바꿀 만한, 획기적 내용이다. 오쿨러스, HTC바이브 등의 HMD하드웨어에서 구동되며, 가상의 상황을 어떻게 설계하느냐에 따라 시뮬레이터나 4D체어 등을 연동하는 시스템으로 제작하여, 현실감을 극대화하도록 했다.



▲ 안희덕 대표

㈜엠라인스튜디오는 인터랙티브 미디어 전문매체로서 영상 및 VR콘텐츠 전문가로 구성된 비주얼 커뮤니케이션 그룹이다. 지난 10년 이상 2D/3D애니메이션, 4D영상 기술을 바탕으로 산업, 생활, 어린이 등 다양한 분야의 안전교육 콘텐츠를 제작해왔으며 이러한 기반 위에 언리얼4 엔진을 접목하여 VR/AR/MR을 축적해왔다.



세이프라인 체험
'세이프라인'은 그간의 기술역량이 집약된 성과물이기도 하다. 가상현실에 의한 안전사고 교육 VR솔루션으로서, 다양한 가상체험을 통해 산업현장 안전사고에 대한 경각심을 일깨우는 것이다. 지난해 '지게차 안전사고 및 안전체험 편'은 국제안전보건대회에서 큰 호평을 이끌어냈고, 한국산업안전보건공단의 '안전VR 시연' 대표 콘텐츠로 '세이프라인'이 채택되었다. 중국 베이징 정부청사 건설현장의 안전교육 체험관에 공급된 '세이프라인'은 현장에 방문한 시진핑 주석이 직접 시연하고 나서 극찬을 하기도 하였다.

금년에도 'ICT융합 industry4.0' 기술개발사업에 선정되고, 포스코, 삼성반도체, KIA, 한국 도로공사의 VR 산업안전 교육콘텐츠 개발을 추진하는 등 기술력을 인정받고 있다. 안 대표는 "이 제품을 브랜드화해서 안전체험 콘텐츠에만 머무르지 않고 기업이나 일상에서 필요한 다양한 콘텐츠로 범위를 확대해갈 것"이라며 "중국 및 일본을 비롯해 해외 수출도 모색할 예정"이라고 밝혔다.

저작권자 © 한국미디어뉴스통신 무단 전재 및 재배포 금지

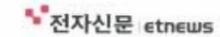
출처 : 한국미디어뉴스통신(<http://www.kmunews.co.kr>)



News Focus Upgrading industrial safety through 4th industrial revolution



Industrial safety training now done through 'Virtual Reality (VR)'



산업안전 교육도 이제는 가상현실(VR)이 대세

김민정 기자

가상현실(Virtual Reality, 이하 VR)이 4차 산업혁명의 핵심산업으로 성장하는 가운데 산업안전 분야에서도 대한 건설사들을 시작으로 가상현실 교육이 도입되어 점차 확산되는 추세이다. 정부도 관련산업 육성을 위해 적극 지원하고 있다.

최근 한국콘텐츠진흥원(이하 콘진원)이 시장성과 수출 가능성이 높은 VR 콘텐츠를 발굴하고, 대중소 기업 협업을 통해 '기획-제작-유통' 등 전 단계를 종합적으로 지원하기 위해 'VR콘텐츠 프런티어 프로젝트 사업' 공모를 추진, 6개 업체를 선정했는데 이 중에도 산업안전 VR분야가 포함되어 있다.

상정된 과제는 ㈜엠라인스튜디오와 코오롱비티(주)의 컨소시엄의 아성산 프로젝트인 'VR 산업안전 교육시스템'이다.

이 프로젝트는 건설 현장의 근로자를 대상으로 산업현장에서 주로 발생하는 자칫한족, 추락, 충돌, 협착, 화염 화재, 감전, 낙상 등 8가지 사고를 실제 산업현장 사례를 바탕으로 제작되는 VR 콘텐츠로 2018년 3월까지 콘텐츠 개발을 완료하고, 코오롱비티(주)의 글로벌 유통망을 통해 국내시장을 시작으로 전 세계 각 산업현장의 안전교육장에 공급할 계획이다.

사업 결과물은 8종의 사례가 하나의 콘텐츠로 패키징된 형태로 현장에서 간편하게 PC와 HMD(Head Mounted Display)만 있으면 모든 교육을 체험해 볼 수 있도록 설계되어 있다.

업체 관계자는 "근로자가 가상체험 장비인 HMD를 착용한 상태에서 본인에게 발생할 수 있는 사고유형을 직관적으로 교육받을 수 있다"며 "다양한 VR 산업 안전교육으로 산업재해에 대한 경각심을 높이고, 안전사고 예방에 크게 기여할 것"이라고 밝혔다.

㈜엠라인스튜디오는 지게차 사고, 낙상 등 산업안전과 관련된 다양한 분야에서 VR 콘텐츠와 가상체험시스템 제작해온 전문업체로서 지난 2016년부터는 대표적 제품인 SAFE-LINE을 중국 '신장안전'에 수출하고 있으며 삼성반도체, KIA, 포스코의 VR프로젝트를 추진하는 등 업계를 리딩하고 있는 유망 중소기업이다.

전자신문인터넷 이종민 기자 (jongmin1@etnews.com)





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