Interactive Experience

Agentic AI | VR AR | Game | Visualisation | Digital Twin

VR Booth

有學生戴著虛擬實景眼鏡

好震撼，因為它很大

VR Drone Flight

An immersive VR drone simulation that let users experience modern construction site surveying. This demonstrated how technology boosts efficiency and safety with a unique first-person perspective.

Target Audience

Designed to attract students and the public, successfully sparking interest in the construction industry by showcasing its innovative and technological side.

TVB News

The project's success garnered significant media attention, including a feature on TVB News. This coverage amplified our reach and highlighted the use of VR to engage the public.
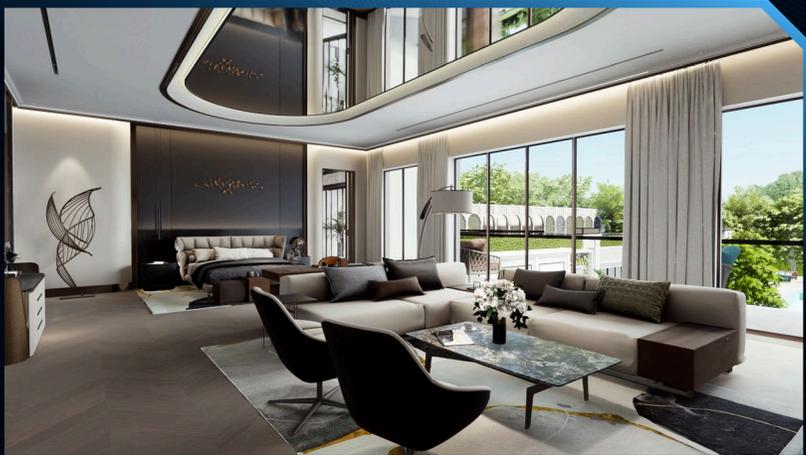
Corporate Training

Professional Development Workshops in Unreal Engine and Virtual Reality for Corporate & Government Sectors

As an appointed Unreal Engine and VR instructor for HKDI-PEEC, I delivered specialized corporate training workshops. The custom curriculum was designed to upskill professionals from prominent organizations, including the Hong Kong Lands Department and RTHK, through hands-on training in real-time 3D and immersive technologies.

Architectural Visualisation

Luxury Residential Interior

A photorealistic render focused on sophisticated lighting and high-fidelity materials to create a serene and elegant atmosphere.

Integrated Resort Masterplan

Large-scale aerial visualisation of a coastal resort, showcasing complex site planning and the integration of architecture with the environment.
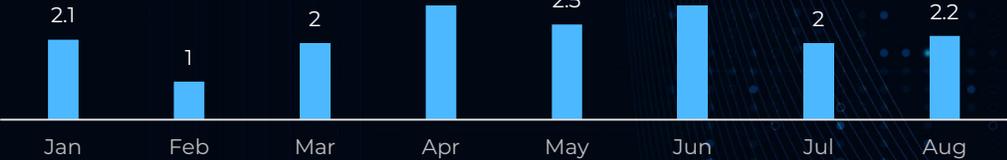
Digital Twin

Alert

Event Summary

All | 🔔 Alarm (117) | 🔧 Service Request (192)
📋 Fit-out & Work Permit (1,000) | 📋 Work Order (318)

120 New	233 In Progress	1029 Completed

Search...

Sort by | 🔽 Add filter | +

🔔 **2/F** — Acknowledged
AH_BMS_2F_AHU_High_Supply_Temp_Alarm
BMS_CRITICAL — 30-05-2023 20:59:05 PM

🔧 **27/F** — Closing
Found 1 Access Card (No. 1251) Today, Please Collect
10805667 — 08-02-2023 8:22:29 AM

📄 **22/F** — In Progress
22/F St#2 Electric Door Lock Loosen Out
CM2203963089 — 01-02-2023 03:28:15 AM

📄 **10/F** — In Progress
A/C Ext Now Till 0200H Tonight (2 Feb)
CM2203972615 — 01-02-2023 23:22:30 PM

Work Permit | User Configuration

Overall Performance

📄 Export Report

Work Permit This Month Overview

Service Request Acceptance Rate (this month)	Average Alert Handle Time (in day)
90%	**1.35**

Work Order Mean Time to Resolve (in day)	Average Service Request Completion Time (in day)
1.2	**1.7**

Total Incident Count (this month)
21

Overall Asset Availability

Overall Asset Readiness and Downtime in Last Year

Floor indicators: 2F, 3F, 4F, 5F, 6F, 7F, 8F, 9F, 10F, 11F, 12F, 13F, 14F, 15F, 16F, 17F

Map markers: 692, 5, 10, 198, 8

Data-Driven Facility Management

This digital twin platform provides a unified command center for proactive facility management. It integrates a live 3D model with real-time IoT sensor data and operational analytics, allowing managers to instantly visualize alerts, track performance KPIs, and optimize building efficiency.

Heat Sensor

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
2.1	1	2	3	2.5	3	2	2.2

Footprint

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
2.1	2	2	2.5	3	2.8	3	3
1.5	1	1.5	2	2.5	3	2	2

AI EdTech Platform

AI Exam Paper

Instantly generates customized assessments and rubrics using AI, significantly reducing teachers' administrative workload and manual grading time.

AI Lesson Preparation

Empowers educators with AI tools to rapidly build comprehensive lesson plans and tailored teaching materials from simple prompts.

STEAM Topic

Delivers specialized STEAM curriculums designed to foster critical thinking, creativity, and practical problem-solving skills for modern students.

Gamified Learning

Integrates game design and Unreal Engine to transform traditional classroom lessons into highly engaging, interactive learning experiences.

VR Game

Strategic Game Design

The game is engineered for casual gamers with a fast-paced, 15-minute "Area Defense" gameplay loop, maximizing player engagement and replayability for a broad audience.

Scalable Content Pipeline

Built on a modular framework that allows for the rapid creation of new weapons and enemies in minutes, ensuring efficient development and the ability to easily expand game content in the future.

Immersive Player Experience

Utilizes advanced features like code-driven Inverse Kinematics (IK) for realistic weapon handling and dynamic enemy hit-reactions to deliver a high-quality, visceral user experience that promotes deep immersion.

Robust Performance Optimization

A core focus on optimization ensures the game maintains a stable 120 FPS—even with many enemies on screen—guaranteeing the smooth, comfortable experience that is essential for commercial VR success.

Storyboard App

Interactive 3D Storyboard App built with Unreal Engine to streamline project video pre-production at Lingnan University.

The platform was built utilizing both Unreal Engine 4 and 5 to create a dynamic, high-fidelity virtual environment. Engineered with a robust combination of C++ and Blueprints, the tool streamlines the visual pre-production workflow, allowing users to seamlessly translate initial concepts into fully realized 3D storyboards.

Get Experience. The craftsman that Makes Unique.

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