CAM KANIA

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EXPERIENCE

Pretend Simulations Founder / Creative Director

Feb 2024 - Current

Creative Direction, Technical Art, Animation

- · Scope, staff, & lead XR experience development projects for clients
- · Craft experience narratives for attractions & technology demos
- · Design 3D assets, motion graphics, interfaces, & shaders for XR apps
- · Build animation pipelines for robotic figures & attractions (Python, C++)
- · Generate synthetic data for machine learning applications (Unreal)

Universal Creative

Sr. Show Programmer & Hiring Manager Ride Design & Show Technology Team

Feb 2022 - Feb 2024

Concept Development & Team Leadership

- · Led show animation efforts for attractions in the Creative Studio
- · Presented interactive experiences & illusion demos to IP Partners
- · Managed & mentored a 5-person team of animators & developers
- · Communicated concepts through animatics, mock ups, & motion data
- · Built & maintained real-time attraction digital twins (Unreal / Perforce)

Show Programmer **Core Studio Team**

Apr 2018 - Feb 2022

Show Programming (Ride & Show Animation)

- · Delivered animation profiles & sequences for 9 Universal attractions
- · Modeled, rigged, & animated ride systems, robotic figures, & effects
- · Developed & maintained onboard VR ride pre-visualization toolkit
- · Wrote real-time kinematic analysis & pipeline scripts
- · Captured LiDAR scans & architected scan-to-mesh asset pipeline
- · Designed haptic animation pipeline & profiles in Unity (C#)

Thinkwell Group

Interactive Associate

Jun 2017 to Apr 2018

Interactive Experience Design & Animation

- · Developed real-time ride simulation pipelines for 8 rides & shows
- · Animated motion profiles for 5 Warner Bros. World attractions
- · Built mobile VR walkthrough app for Google's Redwood City campus

3D Modeler

Jul 2016 to Jun 2017

3D Modelina

- · Modeled & rendered production props & show sets for 4 theme parks
- · Created & integrated projection system visualizations
- 3D Modeler Intern · Built VR CAVE environment for multi-user virtual walkthroughs
 - · Prepared digital assets for 3D printing & fabrication

VOA Associates Inc.

Visualization Intern May 2015 to Aug 2015

Feb 2016 to Jul 2016

Real-time Architectural Visualization

- · Modeled & textured assets for architectural visualizations
- · Integrated Unreal engine into visualization workflow

EDUCATION

Georgia Institute of Technology (Georgia Tech) MS in Computer Science (Part Time / Remote, Expected Grad. - 2027) · Specialization in Computational Perception & Robotics

University of North Carolina at Chapel Hill (UNC)

BA in Communication (New Media)

- · Minors in Studio Art & Theatrical Design
- · Graduated with Distinction

AWARDS

Patent

· Ride Vehicle Restraint System - US11345309B2

Themed Entertainment Association (THEA Awards)

· 6 THEA Awards for attractions across the globe

SOFTWARE SKILLS

3D / Motion

Maya 3ds Max Houdini MotionBuilder

Interactive

Unreal Engine ARKit / RealityKit Git / Perforce Microprocessors

Scripting

Python / Qt / MEL GLSL/HLSL C++ / Blueprints Maxscript C#

Audio / Visual

Premiere Pro After Effects Photoshop Resolve Audacity

Projection

Disguise / OmniCal TouchDesigner 7thSense Depence² QLab