

Garrett Williams

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Projects

Dreamscape Learn 4D VR Simulations December 2023 - Present

- Creating VR immersive experiences in free-roam and classroom Dreamscape pods
- Utilizes Unity, C#, and Dreamscape SDK to program interactive simulation features
- Troubleshooting and optimizing software and HTC Vive hardware for a better user experience

Synthetic AI Training Dataset Generator (DyViR) November 2021 - Present

- Developing Unity app to generate synthetic training datasets for AI aerial object detection
- Programming behaviors for modifying and exporting CSV and video data from Unity
- Integrating photorealistic drones and environments in collaboration with 3D artists

VR Orthopedic Surgery Simulation for Cooper Hospital June 2019 - December 2021

- Programmed Unity VR hip surgery simulation for HTC Vive
- Integrated 3D anatomy models for real-time interaction, enhancing training realism
- Collaborated with artists and medical professionals for accurate anatomy integration

VR Sim for Parents of Autistic Children November 2022 - Present

- Developing a simulation to train parents how to manage their ASD child's behaviors
- Implement vocal and physical interactions for Meta Quest 2 using OVR and Wit.AI
- Lead development of a prototype to secure \$450,000 in funding from the NIH

Work Experience

Immersive Experience Developer & Pod Manager November 2024 - Present

Rowan University, Gloucester County, NJ

- Develops VR curriculum/research content as part of Rowan's Dreamscape Initiative
- Utilized Unity Dreamscape SDK for implementation of 4D elements (water, wind, vibrations)
- Co-manages VR pod, providing tours, performing maintenance, and guiding student operators

VR Research Engineer October 2022 - November 2024

Rowan University MAVRC, Gloucester County, NJ

- Lead the development of head-mounted, immersive display, and desktop VR experiences
- Co-instructed student teams in engineering courses, resulting in 3 published conference papers
- Collaborated with artists, engineers, and clients for VR experience implementation

Education

Master's of Science, Electrical and Computer Engineering

GPA: 3.74/4.0

Rowan University, Glassboro, NJ

Certifications/Achievements

- Unity Certified Professional: Artist (March 2023)

Volunteer Experience

Head/Master Instructor, National Karate Institute

January 2015 - Present