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# EDUCATION

University of Pennsylvania · Philadelphia, PA	
Master of Science in Engineering in Computer Graphics and Game Technology	Expected May 2026
Bachelor of Science in Engineering in Digital Media Design	Expected May 2026
<b>Relevant Coursework:</b> Advanced Graphics Rendering, Interactive Computer Graphics, Proced Data Structures and Algorithms, Computer Systems, Artificial Intelligence, Linear Algebra	ural Graphics, ,
Computer Animation, Advanced 3-D Modeling, VR for Artists, Procedural Design Systems	GPA: 4.00/4.00
EXPERIENCE	
XAVATAR	Remote
3D Modeling and Animation Intern	Nov 2023–July 2024
<ul> <li>Designed and developed a "budget motion-capture" pipeline that processes hand and hea Oculus Quest headsets into character rig animation data in Blender and Unreal</li> </ul>	ld tracking data from
- Created VR web app using Wonderland Engine with virtual UI to control, record, and expo	rt performances
– Wrote Blender Python script to convert positional tracking data into rotational bone data,	and apply it to the rig
UNIVERSITY OF PENNSYLVANIA	Philadelphia. PA
CIS 4600 Teaching Assistant - Interactive Computer Graphics	August 2024–Present
CIS 1600 Teaching Assistant - Mathematical Foundations of Computer Science	Sept 2023–July 2024
<ul> <li>Rubrics Committee Head starting Jan 2024: Led creation of homework rubrics in a commit</li> <li>Led weekly recitation for 20 students on discrete math. proofs, and probability, held office</li> </ul>	ttee of 7 other TAs hours
Residential Teaching Assistant - Computer Graphics - Engineering Summer Academy at Penn	July 2023

# PROJECTS

### VR Paint

A texture-painting web app for virtual reality users built using Wonderland and WebGL. Import 3D models and paint and export UV-aligned textures. GPU-accelerated to handle large textures and minimize lag, features robust layer and undo system. Contains customizable brush radius, opacity, falloff, and spacing

### **Movable Pivot**

Developed Blender addon using **Blender Python** to dynamically move the pivot point of objects during animation. Utilizes a control bone with a parent-child relationship to cancel out transforms during pivot point translation across the timeline. Removes the need to animate location during offset rotations, simplifying rigid-body animation

### Mini-Minecraft

Developed a voxel game engine in a team of three using C++, OpenGL, and QT. Implemented multithreaded procedural terrain generation, flood fill lighting, biome-dependent vegetation, and a dimensional travel system

# LEADERSHIP

# PENN SIGGRAPH

Internal Vice President, prev Project Lead, Speaker

- Working with current president to organize and advertise weekly social events and quarterly networking events for the game and animation industry
- Taught 2-hr masterclass teaching 15+ club members creature concepting and sculpting in **Blender**

# SKILLS

Languages: C, C++, JavaScript, Java, Python, HTML and CSS, SQL, GLSL Frameworks and Tools: React, Django, Tailwind CSS, QT, OpenGL, Git, Unit Testing 3D and Game Technologies: Maya, Blender, ZBrush, Substance Painter, Houdini, Unity, Unreal, Wonderland

Dec 2023

July 2024

Aug 2024

Nov 2022-Present