

Alan R O’Cull

Technical Artist

alanocull.com | alanrocull@gmail.com | [LinkedIn](#) | [GitHub](#) | (317) 873-4065 | Carmel, IN

Looking to create and improve graphical tools and pipelines with a technical skillset.

Experience

Simulation Engineer Intern

Indianapolis, IN

Broadband Antenna Tracking Systems

May 2021 – August 2023

- Developed real-time interactive radio simulation software using Godot Engine and Golang
- Recreated field-test and production scenarios with simulations for rapid validation testing
- Studied and applied various physical and graphical concepts for improved simulation results
- Crafted a map-making pipeline using GIS and GLTF to get locations in-engine within the hour
- Led a team of contractors to produce 3D assets and maps for visualization purposes

Leadership

Purdue ACM SIGGRAPH Club

West Lafayette, IN

President

May 2023 - Present

- Created a collaborative space with other club leaders to further student engagement
- Facilitated guest-speaker events with professionals in the Computer Graphics industry
- Provided resources for students to aid them in surviving university and starting their careers

Projects

Spar

Carmel, IN

Personal Project

April 2023 – Present

- Developed a fast-paced third-person networked player-versus-player game in Godot Engine
- Established a 3D character pipeline and associated tools using Python and Rust
- Crafted stylized shaders for a consistent look whilst enabling dynamic systems like weather
- Constructed a gameplay analytics system with JSON for balance and game insights

Luchadores

Westfield, IN

Personal Project

March 2020 – 2022

- Collaborated with a team of three to produce an online-multiplayer web game
- Designed a custom TypeScript game engine from scratch to best meet project goals
- Created animation and effects systems for exciting graphics in a unique runtime environment

Education

Purdue University, Undergraduate
Majors in **Animation, Game Design**

West Lafayette, IN
Expected Graduation **May 2024**

Skills

Rigging, Linear Algebra, Blender, Maya, Unreal Engine, Unity, Godot, Substance Suite, C/C++, Rust, Golang, Lua, Python, TypeScript, JavaScript, OpenGL, SDL, Git, Linux, Web Hosting

Scholarships and Awards

Purdue Presidential Scholarship

August 2020

Dean’s List

December 2020 – December 2023

Cashier of the Month

July 2020