

## Core Skills

- Developed over a dozen projects over 4 years in **Unreal Engine 4** and **Unity** for **PC, VR, and mobile** in both solo and teams
- Designs and scripts user-centric **systems, content, and tools** from **multidisciplinary angles**: engineering, audio, FX, and art
- Highly proficient in **Unreal Blueprints, C++, and C#**, with deep understandings of **3D math** and **object-oriented design**
- Excels in [documentation](#), [presentation](#), and **interdisciplinary communication** within an **agile scrum** setting
- Strong **leadership, teamwork, & organizational** experience, having achieved **Eagle Scout** in the Boy Scouts of America

## Expertise

- Systems Design & Engineering • FPS Design • Character Controls • Procedural Animation • VR • Audio • Agile Scrum

## Game Projects

[Cash Force](#)    *Unreal Engine 4*    Team Project  
**Virtual Reality arcade shooter inspired by 1970's crime films**  
Design • VR interaction, weapons, gunplay, combat, animation, player feedback, level scripting, content, economy, balance, tools  
Programming/Implementation • VR Interaction, gunplay, animation, gameplay, audio, tools, level scripting, economy

[Shotgun Shootout](#)    *Unreal Engine 4*    Solo Project  
**Immersive shotgun-based FPS with manual weapon controls**  
Design • Shooting, pumping, reloading, aiming, character controls, animation, VFX, projectiles  
Programming/Implementation • Gameplay, feedback, procedural animation, audio, projectile physics, architecture  
Art • Shotgun model, true first person character, muzzle flash particles, bullet impact particles

[Simple Sandwich](#)    *Unity 3D*    Team Project  
**Compete with friends to make tasty sandwiches**  
Design • Movement, scoring, PvP, UI/UX, player feedback, VFX  
Programming/Implementation • UI/UX, player feedback, audio, VFX, character animation

[Bolter, Bolter, Bolter!](#)    *Unity 3D*    Solo Project  
**Immersive flight simulation with real physics and carrier landings**  
Design • Flight simulation model, controls, user interface, carrier landing simulation, level  
Programming/Implementation • Gameplay, feedback, physics, UI/UX, audio  
Art • Plane model, carrier model, UI elements, Unity terrain

[Snowball Showdown](#)    *Unity 3D*    Team Project  
**Fast paced competitive snowball fighting in Virtual Reality**  
Design • Character controls, combat, throwing, scooping, items, PvP, feedback  
Programming/Implementation • Physics, gameplay, feedback, haptics, audio, UI/UX

## Software Skills

### Game Engines

Unreal Engine 4 • Unity 3D

### Programming Languages

C++ • Unreal Blueprint • C# • HTML • GLSL • RakNet

### Other

Vector math • Blender • Photoshop • Illustrator • Excel • Wwise

## Work Experience

**Emergent Media Center** – Interactive UX/UI Designer  
Burlington, VT – Sep 2019 - Present

- Design and prototype gameplay, UI, and UX systems
- Create and maintain design documentation
- Assist with implementing systems, mechanics, and assets for a mobile game

**VCB LLC** – Technical Game Designer  
Burlington, VT – May 2019 – Sep 2019

- Design and program VR game systems, UX, and audio for *Snowball Showdown*
- Attended Oculus Connect 6 to promote the game

**Fellow Humans LLC** – Game Designer  
Burlington, VT – Feb 2019 – Aug 2019

- Design and implement game systems, user interface, and audio for *Simple Sandwich*

## Education

**Champlain College** - Burlington, VT  
Game Design 2016 - 2020

Bachelor of Science in **Game Design** with **minor in Game Programming**

- Dean's List every semester (GPA 3.75)
- Junior Year Production 2 game taken to PAX East

**Champlain College Study Abroad** - Montreal, QC  
Fall 2018

- Studied under game industry professionals