Colton Soneson (860)549-3596

Burlington, VT Email: colton.soneson@gmail.com

### **Qualifications and Key Competencies**

- Advanced experience (~ 4 years) with programming languages C++, C, and C#
- Moderate experience (~2.5 years) with Vulkan Graphics API and GLSL
- Minor exposure with programming languages Cg, HLSL, Python, HTML, and Java

### **Education**

## Champlain College, Burlington, VT

3.5 GPA

Pursuing a B.S. Degree in Game Programming, Minor in Mathematics

## **Relevant Coursework**

- Game Architecture/ Game Engine Design and Implementation
- Intro to Modern Graphics / Intermediate Graphics Programming/ Advanced Realtime Rendering
- Real-Time Debugging

Portfolio: https://colton-soneson.github.io/

- Game Networking
- Game Production I / II / III

Game Physics

- AI for Games / Advanced Game AI
- Animation Programming

 Calculus I / II / III and Linear Algebra

Anticipated Graduation: May 2021

#### **Technical and Communicative Skills**

- Experience building a renderer from the ground up using Vulkan SDK
- Familiar with Visual Studio Enterprise IDE for use in various programming languages
- Developed C++ code and technical art for Unreal Engine 4
- Developed C# code and C++ plugins for Unity Game Engine
- Ability to model in both Blender and Autodesk Maya
- Worked and Participated in SCRUM based team environments for entirety of university
- Determined to have a conflict-free environment to not let production come to a halt
- Produced a game alongside 13 other team members with over 70,000 downloads

#### **Released Works**

### "Fission Editor"

Freelance (Personal Project) February 2019 to Present

# Graphics Engineer, Graphics Programmer, Animation Programmer

- Sole Developer of this ECS based Editor
- Created Renderer using Vulkan SDK backend
- Formed two separate renderers that share instance properties
- Developed Scene Structure with Options Menu to Add or Remove Objects
- Programmed GLSL shaders for Phong lighting and Toon lighting
- Created Keyframing System with Clip Controllers
- Implemented Skeletal Creation and Animation

Link: <a href="https://github.com/Colton-Soneson/FissionEditor">https://github.com/Colton-Soneson/FissionEditor</a>

# "Forkdrift"

Forkurit Lead Graphics Programmer, Vehicle Programmer, Environmental Lighting, etc.

• Coded adjustable Cg shaders for artists

- Developed physics and constraints for forklifts in game
- Handled lighting of environment and Light Weight Render Pipeline setup

Link: <a href="https://store.steampowered.com/app/1318940/Forkdrift/">https://store.steampowered.com/app/1318940/Forkdrift/</a>

#### Work Experience

## iD Tech Camps and OPL

CT and Online

Tech Coordinator/Instructor

June 2019 to December 2020

Developer: Endless Suffering

March 2020 to July 2020

- Taught Unity, C#, Python, Java, Maya, and Blender to students whose ages range from 9 to 19
- Learned important communication skills required when teaching coding or 3D modelling