

# Iain Roach

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Portfolio: <https://people.rit.edu/ijr8454/Portfolio/> • [linkedin.com/in/iain-roach/](https://www.linkedin.com/in/iain-roach/)

## SKILLS

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**Programming Languages:** C# | C++ | HTML:5 | JavaScript | CSS | HLSL

**Operating Systems:** MS Windows

**Tools:** Microsoft Office | Google Apps | Unity | Visual Studio | Visual Studio Code | GitHub | Git | Maya | Photoshop | GraphQL | DirectX11 | XML | JSON

## EXPERIENCE

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### Game Developer

May 2022 - Current

Designori | Remote, Anchorage, AK

- Worked in a small team remotely to develop virtual reality training simulations for the Coastal Village Relief Fund (CVRF) in Alaska.
- Implemented tutorial sequence to train users on the SAFER HCM Module.
- Reported progress and goals to the team lead during weekly development meetings

## EDUCATION

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**Rochester Institute of Technology** | Bachelor of Science in Game Design and Development

Expected May. 2024

- Minor: Japanese
- GPA: 3.9
- *Dean's List (Fall 2020, Spring 2021, Fall 2021, Spring 2022)*

**Related Courses:** 3D Asset and Animation Production (Unity and Maya) | Graphical Sim I |

Rich Media Web App Dev I (HTML:5 & JavaScript & CSS) | Interactive Media Development (Unity & C#) |

Data Structure & Algorithm for Games and Simulations I & II (C++) | AI for Game Environments (Unity & C#) |

Game Graphics Programing I & II ( C++ & DirectX11 & DirectX12)

## PROJECTS

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**Icarus**, Academic Group Project (Unity VR, C#)

January 2023 - May 2023

- Created Archery mechanics in virtual reality
- Currently it has two game modes (Archery and Sharpshooting).

**CVRF Northern Hawk Simulation**, Designori Project (Unity VR, C#)

May 2022 - December 2022

- Created two VR training scenes teaching the user how to pack filets on the Northern Hawk as well as the proper way to make sure each box contains the same amount of fish.

**560 Pathfinding Demonstration**, Academic Project (Unity, C#)

January 2023 - February 2023

- Created a demonstration of different pathfinding algorithms specifically Dijkstra and three variations of A\* (Uniform, Manhattan, and Cross-Product)

**SAFER VR**, Designori Project (Unity VR, C#)

May 2023 - Oct 2023

- Implemented tutorial sequence to train users how to operate the SAFER hand control module.

**Kawarek CDL**, Designori Project (Unity VR, C#)

Nov 2023 - Dec 2023

- Implemented tutorial sequence to train users how to inspect a Semi Truck to make sure everything is functional.

**Nactec AnP**, Designori Project (Unity VR, C#)

Jan 2024 - Current

- Implementing a comprehensive Pre-Flight Inspection training sequence for Cessna 150 pilots, ensuring thorough understanding and adherence to pre-takeoff procedures.