

Liam James Middlebrook liammiddlebrook@gmail.com
github: liam-middlebrook

Skills			
	Programming Languages	Libraries and Frameworks	Development Tools
	C# (6 yrs.)	.NET (4.0 - 4.5)	Visual Studio (2010 - 2015)
	C++ (1 yr.)	XNA (4.0 - 4.0 Refresh)	Unity 3D 4.x
	GLSL (Familiar)	Modern OpenGL (3.3+)	Git
	Python (Familiar)		

Selected Projects ***Splattershmup*** - Lead Effects Programmer

Splattershmup is a Shoot 'Em Up game built in Unity3D. In Splattershmup the player leaves a trail of paint as they play resulting in images that resemble Jackson Pollock's paintings. I designed and implemented the paint system.

OfCourse - Contributor

OfCourse is a course website framework that was written in Python using the Flask library. OfCourse is currently being used in RIT's Humanitarian Free and Open Source Software Culture Course. I worked on the Participants page for OfCourse which scrapes students blogs for posts. OfCourse is part of the FOSS@RIT program which is sponsored by RedHat.

<https://github.com/ryansb/ofcourse>.

MINX - Lead Developer

MINX is a C++ Game Development Framework. MINX makes it easier to create 2D games in C++ using an API that is similar to Microsoft's XNA Framework. MINX currently runs on Windows and Linux. I created the graphical backend for MINX and designed the API endpoints.

<https://github.com/GearChicken/MINX>

OpenGL Water Demo - Creator

A demo written in C++ and OpenGL that renders water. The waves are based off of scrolling displacement map textures. The demo includes a photo of pebbles with refraction to better demonstrate the effect of the waves. The water in this demo is looks best when used as a background detail or with a minimal wave amplitude.

<https://github.com/liam-middlebrook/opengl-water>

Russian Chicken Inspector - Creator

Russian Chicken Inspector is a game created during Global Game Jam 2014. In Russian Chicken Inspector you go around the world with the goal of collecting as many eggs as possible. I created the system that procedurally generates the textures for the game on launch. I also worked on the Menu System for the game.

<https://github.com/liam-middlebrook/Russian-Chicken-Inspector>

Work Experience ***MAGIC Research Fellow***

March 2014 - Present

Worked on BlockyTalky. I implmented the Servo Motor Block and assisted in implementing an interface for remotely controlling the BlockyTalky through a webapp.

Kids On Campus Instructor

July 2014 - August 2014

Worked with students from grades 9 - 12. Over the course of two weeks each session of campers learned how to use the Unity3D engine. The campers were taught how to create scripts for Unity in C#.

Kids On Campus Assistant Instructor

July 2012 - August 2013

Assisted in teaching students from grades 9 - 12 how to create games. They used Microsoft's XNA Framework in C# and learned about different Object Oriented Programming Concepts.

Education

Rochester Institute of Technology

August 2013 - Present

B.S. Game Design and Development

3.7 GPA