

SANDY DEMIAN

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Interests

- Graphics
- Procedural Generation
- Environment Behavior
- Visual Effects

Technical Skills

Programming C/C++, C#, Python, Java, Swift, HTML, CSS, JavaScript

Software
 Visual Studio,
 Unity, Unreal,
 Xcode, Photoshop,
 Maya

- Source Control Perforce, GitHub
- Other
 MS Teams, Jira,
 Discord, Slack,

Honors/Activities

- President's Honor Roll
- Dean's List
- ACM-W Member
- Society of Women Engineers Member

Education

Interactive Entertainment, M.S.
 Programming Track
 Florida Interactive Entertainment Academy

December 2020
GPA: 3.79/4.0

Computer Science, B.S.
 University of Central Florida
 December 2018
 GPA: 3.77/4.0

Experience

Izcalli of the Wind - Unreal/C++ [Group Project]

Jan 2020-Present

Graduate Capstone Game

- Game description (I'll copy it from somewhere)
- Programming: Spline tool for making energy slipstreams, environment interactions system to restore the environment from a neglected form, payload trial challenge system
- Tech Art: magic/energy materials, neglected material that can be easily used for multiple neshes, visual effects

DaVinci Buttonology - Unity VR/C# [Group Project] Jan-May 2020 In Partnership with Advent Health

- A VR game using the Oculus Quest to teach medical staff how to use the DaVinci Surgical machine to prepare for surgery
- Main contributions: The DaVinci machine behavior, game loop, some UI

Game Engine - C++ [Class Work]

Jan-May2020

- A data driven game engine with Json scripting, custom runtime type identification, a multithreading event system, and unit tests
- Replacement for the standard singly-linked list, vector, stack, and HashMap

EEG 3D modeling Application - Python [Group Project]Jan-Aug 2018 Undergraduate Capstone Project

- Records EEG data using the Emotiv Epoc+ headset and uses it to build 3D models for artistic purposes
- Main contributions: graphics to display the 3D models, building the second 3D model from EEG data, attaching the model base and saving it to an stl file

Teaching Assistant, Intro to Computer Science

Jan-May 2018

University of Central Florida, Orlando FL

- Explain Computer Science concepts to students in an intro programming class
- Help students in the labs and grade the weekly assignments