CV - TOBIAS BRANDNER

Semmelstraße 9, 97070 Würzburg (+49) 1798298854 \diamond tobias.brandner@gmx.de

EDUCATION

Msc in Computer Science - Specialization in Artificial Intelligence

1.5

Julius-Maximilian-University Würzburg

Arpil 2021 - September 2024

Bsc in Games Engineering

1.8

Julius-Maximilian-University Würzburg

October 2017 - September 2021

EXPERIENCE

Research Assistant, Julius-Maximilian-University Würzburg

November 2021 - August 2023

Technologies: Unity, C#

• Worked on the open-source framework ViaVR which creates VR apps for medical treatment.

Teaching Assistant, Julius-Maximilian-University Würzburg
Tochnologies: C++ OpenCL CMeke

August 2021 - August 2023

Technologies: C++, OpenGL, CMake

• Tutored a course on game engine development, teaching the basics of rendering, input handling and game loop.

Internship Software Developer, Gentle Troll Entertainment GmbH

March 2021 - June 2021

Technologies: Unity, C#

• Developed a serious game for teaching children about management in sports.

PROJECTS

Real-Time Rendering Super Resolution with Unreal Engine 5

Github

Technologies: Python, Pytorch, Unreal Engine 5

Developed a neural method to increase resolution from 1080p to 4k and image quality in real-time.

Abyssal Enigma - Dive In Edition

Itchio

Technologies: Unreal Engine 5, C++, VR, Blender

• Developed a first person deep sea exploration game and ported it to VR.

Eternal Game Engine

Github

Technologies: C++, OpenGL, PreMake

• Developed a game engine with OpenGL as render backend and an editor written with Dear ImGui.

PUBLICATIONS

Analysis and Generation of Flow in 3D Jump'n'Run Games.

PDF

2024 IEEE Conference on Games (CoG).

Tobias Brandner, Marc Mußmann, and Sebastian von Mammen.

SKILLS

Languages: Python, C++, C#, Java, Rust

Frameworks/Libraries: Pytorch, Matplotlib, Pandas, OpenGL

Game Engines: Unreal, Unity, Godot Tools: Git, CMake, Blender