

Erfan Momeni Yazdi

[Website](#) | [LinkedIn](#) | [GitHub](#) | [Twitter](#)

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GRAPHICS PROGRAMMER

Master's student in Signal Processing and Machine Learning with a strong passion for programming. Advanced knowledge of C++ and graphics programming. Logical and professional with excellent problem-solving and communication skills.

WORK EXPERIENCE

Research Assistant

Tampere University

Sep 2022 – Present

Tampere, Finland

- Developed and enhanced TauBench, a specialized benchmarking tool targeting temporal reuse algorithms, addressing numerous issues, and implementing improvements, resulting in the successful release of TauBench 1.1 ([Link](#))
- Studied ray tracing concepts such as Monte Carlo estimation, Multiple Importance Sampling and acceleration structures
- Researched real-time stochastic lightcuts method used for rendering scenes with many dynamic lights
- Currently designing the next version of TauBench

EDUCATION

Tampere University

Master of Science: Signal Processing And Machine Learning

Tampere, Finland

Sep 2022 – Present

K.N. Toosi University of Technology

Bachelor of Science: Computer Engineering

Tehran, Iran

Sep 2016 – Aug 2021

PROJECTS

Syndra

C++, OpenGL, Git, RenderDoc, ImGui

[Source Code](#)

- Designed and developed a physically based Real-Time rendering Engine using OpenGL API and C++
- Implemented Rendering Algorithms such as Deferred and Forward Plus Rendering
- Developed an editor for the engine with different component editors
- Demo video [link](#)

Tauray

C++, Vulkan, CMake, Git, Path-tracing, Linux

[Source Code](#)

- Integrating FSR2.2 upsampling algorithm in the renderer (in progress)
- Minor improvements

Lucin

C++, Git, Path-tracing, Multi-threading

[Source Code](#)

- Implemented a simple multi-threaded CPU Path Tracer with C++

TECHNICAL SKILLS

Languages : C++, C#, Python, Java, x86 assembly
Graphic APIs : OpenGL, Vulkan, DirectX(familiar)
Libraries : ImGui, Assimp, CMake, SDL, GLFW, Premake
Dev Tools : Visual Studio, Git, Github, Gitlab, RenderDoc
Softwares : Blender, Unity, Unreal Engine

SELECTED COURSES

- Computer Graphics (5/5)
- Parallel Computing (OpenMP, OpenCL, SIMD) (4/5)