Torben Steegmann

Portfolio: www.torbensteegmann.com

GitHub: www.github.com/TorbenSteegmann

Contact: steegmanntorben@gmail.com

General Information:

Date of birth: 04/18/2000 Place of birth: Hong Kong Nationality: German

Technical Skills:

- C++
- Physics Simulation
 - ConstrainedDynamics
 - ComplementaryDynamics
 - □ Fluid Dynamics
 - QuantumDynamics
- Computer Graphics
 - OpenGL
 - Metal
 - Rasterization
 - Ray Tracing
 - Computer Vision
 - Virtual Reality
 - Unreal Engine
 - Blender
- Web development
 - React
 - ☐ JS
 - Python

Soft Skills & Hobbies:

- Communication
- Teamwork
- Ambition
- Desire to learn and improve
- Independence
- Flexibility
- Competitive Gaming

Career Objective:

Dedicated, **project-driven** student with a strong passion for **physics simulation** and **computer graphics**. Eager to apply and enhance my skill set through real software applications. **Excited** about the prospect of **learning from experts** in the field and the opportunity to contribute to the **creation** and **improvement** of software.

Projects:

- Live GPU Ray Tracing Engine
 - Written in Swift. Metal. C++
- **FLIP Fluid Simulation**
 - Written in C++
 - ☐ Rendered in Own Custom Physics Engine
- Multi-Threaded CPU Ray Tracer
- Library for Accelerating Octagonal Relations
 - □ Reimplemented and Refined State-of-Art Algorithm for Software Verification in C++
- Hamnu
 - Online PvP Game Written in Unreal Engine
 - ☐ Currently Reworking it to Pure C++/OpenGL

Work Experience:

- Virtual Reality Lab [04/2024 07/2024]
 - Internship
 - ☐ Implemented Several Interaction Methods in VR-Software in Unreal Engine 5
- Cyber-Physical Mobility lab [10/2022 01/2023]
 - Internship
 - ☐ Implemented an Autonomous Package Delivery System on Small Remote Controlled Cars in C++

Education:

- Tsinghua University [02/2025 08/2025] RWTH Aachen Ambassador
- M.Sc. Computer Science [10/2023 03/2026]
 - RWTH Aachen
- B.Sc. Computer Science [04/2020 09/2023] RWTH Aachen
- B.Sc. Applied Computer Science [10/2018 03/2020] RWU, Ravensburg-Weingarten