

ANTOINE DUMOULIN

3D graphics engineer
Graduation August 2023

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EXPERIENCES

2023 | **EMG game developer intern** | NCAN Albany

6 months at the National Center for Adaptive Technologies
Development of an EMG-based game for enhanced motor learning
Literature reviewing and Unity programming

2022 | **Freelance**

Registration of a freelance society for discovering purposes

2021 | **Unity developer intern** | Synnaxium Studio

Radiant Blade: prototype and integration of new gameplay features
Edimap: integration of a new placement feature within Unity editor

2016 – 2023 | **Associate** | LeLaboDumoulin

IT manager: PC setup, mail/website migration, network security

2018 & 2019 | **Summer job** | EPSAN Brumath

2017 | **Work experience** | Amaris Strasbourg

2016 | **Work experience** | ICube Strasbourg

EDUCATION

2023 | **Master of Engineering** | University of Strasbourg

Computer Science (Image, Virtual Reality, Interactions and Games track)

2021 | **Bachelor's degree** | University of Strasbourg

Computer Science with honors

PROJECTS

2022 | **Monte Carlo path tracer**

C++ OpenGL and GLSL shaders to render ground truth lighting

2022 | **Mesh geodesic computing**

A state of art geodesic path and loop tracer using intrinsic mesh triangulation. Contribution in <https://cgogn.github.io/>

2022 | **DuckHunt VR**

A VR duck hunt remake. Adapted for Oculus Go with Unity

2022 | **Atari Tempest**

Remake of the arcade game with the SDL library in C++

2021 | **Wrecking brawl**

An online multiplayer car game made with Unity

I mainly worked on particle system, physics, mobile UI and debugging

SKILLS

- **Game engine**
 - Unity
 - Unreal
- **Rendering**
 - OpenGL (GLSL)
 - Raytracing
- **Human-computer interactions**
 - User Interfaces
 - Mixed reality (AR / VR)
- **Artificial Intelligence**
 - Machine learning
 - Deep learning
- **Mesh computing**
 - PMP
 - CGAL
- **Computer vision**
 - OpenCV
 - Python
- **OOP**
 - C++
 - C#
 - Java

- **Hobbies**
 - Cooking
 - Video games
 - Dota 2
 - Hearthstone
 - Age of empire IV
 - Gardening
 - Cycling