# Curriculum Vitae ir. Matthias Moulin

#### Personalia

Nationality: Belgian Birthdate: 15 January 1992

Mobile: Email: matthias[dot]moulin[at]gmail[dot]com

in LinkedIn <a href="https://be.linkedin.com/in/matthias-moulin">https://be.linkedin.com/in/matthias-moulin</a>

Github https://github.com/matt77hias - https://matt77hias.github.io/

#### **Experience** (in reverse chronological order)

Dec 2023 – Jun 2025	Frostbite, EA Digital Illusions CE AB (DICE), Stockholm, Sweden – Remote
	Rendering Software Engineer III – Image Quality (Frostbite Rendering)
Jun 2020 – Nov 2023	<u>Frostbite</u> , <u>EA</u> <u>Digital Illusions CE AB</u> (DICE), Stockholm, Sweden – Remote
	Rendering Software Engineer II – Image Quality (Frostbite Rendering)
	• Technologies: DRS, GI Material, Shader Graphs/Expression Shaders
Feb 2019 – May 2020	Frostbite, EA Digital Illusions CE AB (DICE), Stockholm, Sweden – On-site
	Rendering Software Engineer I - Image Quality (Frostbite Rendering)
	• Technologies: CPU/GPU Probes, Enlighten, Flux, GI Live Preview, PBR Materials
Oct 2016 – Feb 2019	Department of Computer Science, KU Leuven, Leuven, Belgium – Hybrid
	Rendering Research Engineer – Research Foundation - Flanders (FWO)
	• Fellowship: PhD Fellowship fundamental research
Oct 2015 – Sep 2016	Department of Computer Science, KU Leuven, Leuven, Belgium – Hybrid
	Rendering Research Engineer – Computer Graphics Research Group (KU Leuven)

### **Education** (in reverse chronological order)

2013 – 2015 KU Leuven, Leuven (Belgium)

Master of Science in Engineering (Computer Science) — Magna cum laude (84.46%)

• Major: Human Computer Interaction (Computer Graphics)

• Thesis: Hybrid Kd-trees for Photon Mapping and Accelerating Ray Tracing (18.5/20)

Supervisor: prof. dr. ir. Philip Dutré

2010 – 2013 KU Leuven, Leuven (Belgium)

Bachelor of Science in Engineering — Magna cum laude (76.83%)

• Major: Computer Science

• Minors: Electrical Engineering and Business Management

#### **Publications** (in reverse chronological order)

**MOULIN M.**, DUTRÉ P.: On the use of Local Ray Termination for Efficiently Constructing Qualitative BSPs, BIHs and (S)BVHs, *The Visual Computer*, Volume 35, Issue 12, pp. 1809–1826, December 2019 (First online: July 2018).

**MOULIN M.**: <u>Hybrid Kd-trees for Photon Mapping and Accelerating Ray Tracing</u>, *Master's thesis*, Department of Computer Science, KU Leuven, Belgium, June 2015.

**MOULIN M.**, BILLEN N., DUTRÉ P.: Efficient Visibility Heuristics for Kd-Trees Using the RTSAH, In Eurographics Symposium on Rendering - Experimental Ideas & Implementations (June 2015), Lehtinen J., Nowrouzezahrai D., (Eds.), The Eurographics Association, pp. 31–39.

#### Skills

Frameworks D3D11, D3D12, DXGI, (EA)STL, MPI, OpenCV, OpenGL, OpenMP

Markup languages HTML/CSS, Markdeep, Markdown, TeX/LaTeX

Modelling languages OCL, UMI

Programming languages C (89/90, 99, 11/18, 23), C++ (98/03, 11/14, 17, 20, 23), C#, CUDA C/C++, Erlang, Haskell,

Java, JavaScript/TypeScript, Maple, Matlab/Octave, MIPS, Prolog, Python 2/3, Racket

Shading languages GLSL, HLSL

Version control Git, Mercurial, Perforce, SVN

### Game credits and contributions (in reverse chronological order)

Full Circle   Skate   Electronic Arts   Announced	Developer(s)	Game	Publisher	Release Date
EA Vancouver, EA Romania EA Sports FC 25 Electronic Arts Sep 2024 EA Tiburon Madden NFL 25 Electronic Arts Aug 2024 EA Tiburon EA Sports College Football 25 Electronic Arts Jul 2024 EA Tiburon EA Sports College Football 25 Electronic Arts Jul 2024 EA Vancouver EA Sports UFC 5 Electronic Arts Oct 2023 EA Vancouver NHL 24 Electronic Arts Oct 2023 EA Vancouver, EA Romania EA Sports FC 24 Electronic Arts Sep 2023 EA Tiburon Madden NFL 24 Electronic Arts Aug 2023 EA Tiburon EA Sports PGA Tour Electronic Arts Aug 2023 EA Tiburon EA Sports PGA Tour Electronic Arts Aug 2023 EA Tiburon EA Sports PGA Tour Electronic Arts Aug 2023 EA Vancouver Dead Space Electronic Arts Nov 2022 EA Vancouver NHL 23 Electronic Arts Nov 2022 EA Vancouver, EA Romania FIFA 23 Electronic Arts Oct 2022 EA Vancouver, EA Romania FIFA 23 Electronic Arts Sep 2022 EA Tiburon Madden NFL 23 Electronic Arts Aug 2022 EA Ottonic Arts Sep 2022 EA Tiburon Madden NFL 23 Electronic Arts Sep 2022 EA Ottonic Arts Sep 2022 EA Ottonic Arts Sep 2022 EA Ottonic Arts Sep 2022 EA Vancouver, EA Romania FIFA 23 Electronic Arts Sep 2022 EA Vancouver, EA Romania FIFA 22 Electronic Arts Sep 2022 EA Vancouver, EA Romania FIFA 22 Electronic Arts Sep 2021 EA Vancouver, EA Romania FIFA 21 Electronic Arts Oct 2020 EA Vancouver, EA Romania FIFA 21 Electronic Arts Oct 2020 EA Vancouver, EA Romania FIFA 21 Electronic Arts Oct 2020 EA Tiburon Madden NFL 21 Electronic Arts Oct 2020 EA Tiburon Madden NFL 21 Electronic Arts Oct 2020 EA Tiburon Madden NFL 21 Electronic Arts Oct 2020 EA Tiburon Madden NFL 21 Electronic Arts Oct 2020 EA Tiburon Madden NFL 21 Electronic Arts Oct 2020 EA Tiburon Madden NFL 20 Electronic Arts Oct 2020 EA Tiburon Madden NFL 20 Electronic Arts Oct 2020 EA Tiburon Madden NFL 20 Electronic Arts Oct 2020 EA Tiburon Madden NFL 20 Electronic Arts Oct 2020 EA Tiburon Madden NFL 20 Electronic Arts Oct 2020 EA Tiburon Madden NFL 20 Electronic Arts Oct 2020 EA Tiburon Madden NFL 20 Electronic Arts Oct 2020 EA Tiburon Madden NFL 20 Electronic Arts Oct 2020 EA Tiburon	Full Circle	Skate	Electronic Arts	Announced
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EA TiburonMadden NFL 20Electronic ArtsAug 2019EA DICEBattlefield VElectronic ArtsNov 2018EA DICEStar Wars Battlefront IIElectronic ArtsNov 2017		<u>Neighborville</u>		
EA DICEBattlefield VElectronic Arts (post-release)Nov 2018 (post-release)EA DICEStar Wars Battlefront IIElectronic ArtsNov 2017	EA Vancouver, EA Romania	FIFA 20	Electronic Arts	Sep 2019
EA DICE Star Wars Battlefront II Electronic Arts Nov 2017	EA Tiburon	Madden NFL 20	Electronic Arts	Aug 2019
EA DICE Star Wars Battlefront II Electronic Arts Nov 2017	EA DICE	Battlefield V	Electronic Arts	Nov 2018
				(post-release)
(post-release)	EA DICE	Star Wars Battlefront II	Electronic Arts	Nov 2017
				(post-release)

#### Languages

Dutch Mother tongue

English Fluent speaker and writer
French Moderate speaker and writer

### Past projects (selected)

MAGE v0 Rendering engine (C++17, D3D11, HLSL)

MAGE v1 (WIP) Improved and extended remake built from the ground up (C++23, D3D12, HLSL)

## **Teaching assistantship**

2016 - 2018	Computer Graphics: Project	[B-KUL-H07Z5A]
2016 - 2017	Capita Selecta Computer Science: Man Machine Interface	[B-KUL-H05N2A]
2016 - 2017	Problem Solving and Engineering Design, Part 3	[B-KUL-H01D4B]
2015 - 2016	Problem Solving and Engineering Design: Computer Science	[B-KUL-H01Q3C]