Curriculum Vitae ir. Matthias Moulin

Personalia

Nationality: Belgian Birthdate: 15 January 1992

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

in LinkedIn https://be.linkedin.com/in/matthias-moulin

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

Experience (in reverse chronological order)

Dec 2023 – Present	Frostbite, EA Digital Illusions CE AB (DICE), Stockholm, Sweden – Remote
	Rendering Software Engineer III – Image Quality (Frostbite Rendering)
Jun 2020 – Nov 2023	Frostbite, EA Digital Illusions CE AB (DICE), Stockholm, Sweden – Remote
	Rendering Software Engineer II – Image Quality (Frostbite Rendering)
	• Technologies: DRS, GI Material, Shader Graph/Expression Shader pipelines
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	<u>Department of Computer Science</u> , <u>KU Leuven</u> , 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.: <u>Efficient Visibility Heuristics for Kd-Trees Using the RTSAH</u>, 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, UML

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)

BioWare Full Circle Skate Dragon Age: Dreadwolf Skate Electronic Arts Announced	Developer(s)	Game	Publisher	Release Date		
EA Tiburon EA Sports College Football 25 EIectronic Arts Jul 2024 EA Vancouver EA Sports UFC 5 Electronic Arts Oct 2023 EA Vancouver, EA Romania EA Sports FC 24 EIectronic Arts EIectronic Arts EIectronic Arts Oct 2023 EA Tiburon Madden NFL 24 EIectronic Arts Aug 2023 EA Tiburon EA Sports FC 24 EIectronic Arts Aug 2023 EA Tiburon EA Sports PGA Tour EIectronic Arts Apr 2023 Motive Dead Space EIectronic Arts Aug 2023 Criterion Games Need for Speed Unbound Electronic Arts Nov 2022 EA Vancouver NHL 23 EIectronic Arts Oct 2022 EA Vancouver, EA Romania EIFA 23 EIectronic Arts Sep 2022 EA Tiburon Madden NFL 23 EIectronic Arts Sep 2022 EA DICE, Criterion Games, Battlefield 2042 EIectronic Arts Nov 2021 EA Vancouver, EA Romania EIFA 22 EIectronic Arts Oct 2021 EA Vancouver, EA Romania FIFA 21 EIectronic Arts Oct 2021 EA Vancouver, EA Romania FIFA 21 EIectronic Arts Oct 2021 EA Vancouver, EA Romania FIFA 21 EIectronic Arts Oct 2021 EA Vancouver, EA Romania FIFA 21 EIectronic Arts Oct 2020 Motive Star Wars: Squadrons Electronic Arts Oct 2020 EA Tiburon Madden NFL 21 Electronic Arts Oct 2020 Motive Star Wars: Squadrons Electronic Arts Oct 2020 Motive Star Wars: Squadrons Electronic Arts Oct 2020 Motive Star Wars: Squadrons Electronic Arts Oct 2020 Motive EA Tiburon Madden NFL 21 Electronic Arts Oct 2020 EA Tiburon Madden NFL 21 Electronic Arts Oct 2020 Motive EA Vancouver, EA Romania FIFA 20 Electronic Arts Oct 2020 EA Tiburon Madden NFL 20 Electronic Arts Nov 2019 PopCap Games Plants vs. Zombies: Battle for Neighborville EA Vancouver, EA Romania Electronic Arts Nov 2019 PopCap Games Plants vs. Zombies: Battle for Neighborville EA Vancouver, EA Romania Electronic Arts Nov 2019 PopCap Games Plants vs. Zombies: Battle for Neighborville EA Tiburon Electronic Arts Nov 2018 Electronic Arts Nov 2018	BioWare	Dragon Age: Dreadwolf	Electronic Arts	Announced		
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EA DICE Star Wars Battlefront II Electronic Arts Nov 2017	EA DICE	Star Wars Battlefront II	Electronic Arts	Nov 2017		
(post-release)				(post-release)		

Languages

Dutch Mother tongue

English Fluent speaker and writer
French Moderate speaker and writer
Swedish Basic 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]