

Résumé – Younes Hamdoud

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Education	BSc Computer Science , University of Amsterdam, Netherlands September 2018 - July 2021 Grade: 9.1/10 (Cum laude) Relevant courses: <i>Graphics and Game Technology, Linear Algebra, Concurrency and Parallel Programming, Introduction to Computer Vision, Digital Signal Processing, Data Structures</i>
Projects	Personal project , Deferred rendering engine August – Present 2021 <ul style="list-style-type: none">• Ongoing project where I implement both established and novel rendering techniques to build a fundamental understanding of graphics.• Written in modern C++ using OpenGL and several open source libraries.• Noteworthy features include: irradiance probe diffuse GI, PBR materials, CSM, SSR, SSAO, HDR lighting, bloom, and tone mapping.• yhamdoud.github.io/projects/rendering-engine Thesis , VR exposure therapy for treatment of selective mutism in children March – July 2021 <ul style="list-style-type: none">• Developed a VR application for supporting treatment of a rare disorder affecting a child's ability to speak in social situations, while working closely with researchers and behavioral therapists to meet their requirements.• Designed a framework for systematically implementing an existing in vivo treatment plan, extended with intuitive interaction methods and a virtual teacher.• Created a 3 part interactive experience using C# and the Unity engine and deployed it on a Quest 2 headset. Wrote a Python WebSocket server for facilitating communication through a JSON-based protocol with an online dashboard.• yhamdoud.github.io/projects/sm-vret Course project , The Hitchhiker's Guide to Accessibility January 2021 <ul style="list-style-type: none">• Together with 4 other students, created a Unity VR game exploring the hurdles faced by a wheelchair user when navigating public spaces.• Over a 3 week time span, transformed an architectural mock-up of the yet to be constructed LAB42 university building into an interactive scene to evaluate its accessibility.• Responsible for design, implementing the wheelchair interactions, and optimization.• yhamdoud.github.io/projects/var4good
Skills	Programming: C, C++, C#, Python, GLSL, HLSL Libraries and APIs: OpenGL, NumPy, SciPy, CUDA Tools and platforms: RenderDoc, Blender, Unity, git, CMake, Linux Related interests: Digital art and sculpting, visual storytelling, VR
Academic Honors	Young Talent Award November 2019 Encouragement prize awarded by the Royal Holland Society of Sciences to first year students at Dutch universities who achieved the best grade average in their cohort. Article link .
Languages	Dutch , Native speaker English , Full proficiency (C2 Cambridge English Qualification – Grade A)