Luke Kratsios

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2016 - 2017

I am a multidisciplinary designer, software developer, and researcher with expertise in coding, architectural design, rendering, ai, visual effects, and building systems. My research for the last 14 months has been integrating and improving the use of artificial intelligence in design workflows. I am committed to enhancing design tools and integrating emerging technologies to foster a sustainable design future.

EXPERIENCE

Nvidia Omniverse Extension Engineer	Summers 2021
 Developed software for remote automated optimization of high poly meshes 	and 2022
 Facilitated the creation of complex digital twin environments 	
· Created Blender-Omniverse plug-in; developed and integrated features for user interface	
 Collaborated with multiple international teams to successfully bridge mutual Interests 	
 Utilized Git for version control, code reviews, and joint project development 	
Research and Teaching Assistantships	
 Research Assistant, Cornell Computer Graphics Laboratory, Prof. Don Greenberg Conducted multidisciplinary research in computer graphics, parametric design, and artificial intelligence 	2021 - 2023
• Teaching Assistant, Cornell Computer Graphics - Visual Imaging in the Electronic Age, Prof. Don Greenberg	Fall 2021
 Research Assistant, Cornell Robotic Construction Laboratory (RCL), Prof. Sasa Zivkovic Developed robotic control code, operated, and maintained 7-axis robotic arm 	Spring 2021
Co-Founder and Business Developer of Virtual Summer Camp Camp Connect; Covid Pandemic Startup providing affordable and unique STEM classes for middle school students	Summer 2020
Team consisting of 32 employees serving 125 students	
Commissioned Artist Create graphic designs and renderings for use in advertising, competitions, promotions, and publications	2018 - Present
EDUCATION	
Cornell University, Bachelor of Architecture: 5-year degree program	0040 0000
Dean's List; GPA 3.8; matriculated May 2023	2018 - 2023
Cornell Architecture Summer Exhibition Selectee Thesis research showcased in "exhibition of exemplary student work"	Summer 2023
Relevant Coursework Computer Graphics, Object-Oriented Programming & Data Structures, Discrete Structures, Advanced Game Design	
Senior Thesis: Architectural Intelligence Developed and utilized state of the art generative AI tools to examine how designers can leverage inherent training biases and input data for use in the design process More info at: www.lukekratsios.com/thesis	Fall 2022 – Spring 2023 Research Ongoing
Independent Study in Digital Fabrication and Parametric Design Explored the use of Bamboo as a modular building material in tensile structures	Spring 2021
Independent Study in Virtual Reality and Visualization Explored the use of VR in the development of architectural projects and communication	Spring 2020
Fiorello H. LaGuardia High School of Music, Art and Performing Arts, New York, NY, Visual Art Studio Advanced High School Regents Diploma; GPA: 95/100	2014 - 2018
LEADERSHIP AND EXTRACURRICULARS	
ACHA Men's Division 1 Cornell Club Hockey, Ithaca, NY Team Captain 2022-23, 2023 National Championships, Team Apparel Manager and Graphic Designer	2019 - 2023
Dragon Day, Cornell University Member of leadership team; designed and constructed 70-foot mobilized articulating dragon	Spring 2019
Eagle Scout; Boy Scouts of America Troop 1 , New York, NY Positions: Senior Patrol Leader (2 years); Assistant Senior Patrol Leader (1 year); Community Service: 300 hours	2010 - 2018
USA Hockey , New York, NY, Tier II Travel Hockey; Team Captain 2016-17	2006 - 2018

ACE Mentorship Program, New York, NY; 2nd-Place Winner in National Design Competition

ADDITIONAL INFORMATION

CITIZENSHIP: USA and Canada

SKILLS

- Object Oriented Programming (Python, C#, C++)
- Automation (Blender Python, RhinoCommon, Grasshopper)
- · Generative Artificial Intelligence
- Stable Diffusion

- Rhino 3D (Modeling, Parametric Design)
- Blender (Rendering, Modeling, Animation, rigging, Geo-nodes)
 - AutoCAD/Revit
- Adobe Creative Suite (Photoshop/Lightroom, Illustrator, InDesign)
- · User Experience (UX)
- User Interface Design (UI)
- Web Development
- VR/AR
- Game Design
- Character Design (2D/3D)
- Unreal Engine
- Unity
- Omniverse

Portfolio Website: www.lukekratsios.com
REFERENCES: available upon request