

EDUCATION	2024 Aug-2026 May	Carnegie Mellon University, Master of Science in Computational Design	Pittsburgh,PA
		<ul style="list-style-type: none">Relevant Coursework: Web development and Interactive Data Visualization (Java,Svelte,D3), Stable Diffusion and Projection Mapping, Foundations for Machine Learning, Programming in PythonRelevant Projects: Generative AI in Architectural Design: Synthetic Simulations for Real-istic Texture Deterioration in Architectural Facades	
	2018 Aug-2024 May	Rice University, Bachelor's Degree in Architecture	Houston,TX
		<ul style="list-style-type: none">2018-2024, GPA: 4.0Rice Architecture Paris program (2023 Fall)Relevant Projects: Evolutionary Optimization Algorithm in Urbanism: Programmatic Solutions for Adaptive Urban Revitalization on the U.S.-Mexico Border; Parametric Membrane Architecture: Computational Canopy Design for Rainwater ManagementHonors & Awards: President Honor Roll (4 semesters); Institutional Honor Cum Laude; Margaret Everson-Fossi Traveling Fellowship STOA International Architects Inc. Award	

RESEARCH	2024 Aug-Present	Immersive Technologies in Digital Fabrication, Mixed Reality Research Assistant	Pittsburgh,PA
		<ul style="list-style-type: none">Engineered a real-time parametric design pipeline in Fologram with Grasshopper and Python, boosting workflow efficiency by automating updates during design processes.Synchronized robotic arms with Microsoft HoloLens for precise wire-bending, merging digital and physical environments to optimize complex-shape fabrication.	
	2021 May-2024 May	CNT Fiber-based Experimental Models in Architecture, Computational Research Assistant	Houston,TX
		<ul style="list-style-type: none">Co-authored and published results in <i>Segmental Ceramic Hollow Structures: Prefabricated Post-tensioned Columns for Ecological Urban Infrastructures</i> (IASS 2024 Symposium)Led a research team of 4 on designing and simulating kinematic folding canopy systems using Kangaroo Physics, incorporating an advanced origami folding script to model dynamic movements, enabling rapid prototyping and enhanced structural adaptability.Optimized fiber-reinforced ceramic column designs using stereotomic techniques and collaborated with Cumella to simulate robotic arm cutting, improving communication and precision in fabrication with engineering team in Barcelona.	

WORK EXPERIENCE	2022 July-2023 May	NBBJ Design, Junior Designer	Los Angeles,CA
		<ul style="list-style-type: none">Spearheaded the design of three advanced facade systems for a convention center, utilizing custom Grasshopper scripts to automate geometries and maximize performance.Directed a laboratory design study in Oxford at the DD phase, ensuring technical precision through seamless cross-team collaboration.Produced detailed Revit drawing sets for a headquarters office, improving workflows and maintaining team consistency of production materials.	
	2021 May-2021 Aug	EID Architecture Studio, Intern Designer	Shanghai,China
		<ul style="list-style-type: none">Directed development of parametric facade solutions using Grasshopper for a shopping complex in Schematic Design phase, driving iterative collaboration with engineersFormulated natural lighting strategies and executed Ladybug analysis for a Wuhan skyscraper crown, maximizing performance through coordinated team efforts.	
	2020 May-2020 Aug	PURE Architecture Studio, Intern Designer	Shanghai,China
		<ul style="list-style-type: none">Generated high-quality client presentation renderings using SketchUp, Lumion, and Enscape, collaborating with the design team to clearly communicate project concepts.Executed 3 case studies on fast construction methods for removable dwellings, integrating insights into the forest library design to improve project outcomes.	

SOFTWARE SKILLS	Design & Visualization: Rhino, Grasshopper, Figma, Revit, Enscape, V-Ray, Photoshop, Illustrator, InDesign Programming & Data: Python, JavaScript, HTML/CSS, Svelte, D3, ArcGIS, Comfy-UI, Excel Additional Tools: Notion (advanced), Trello, Slack, Miro, Git, GitHub, Fologram, HoloLens
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