

Zihe Huang

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<https://www.linkedin.com/in/zihe-huang/>

Bachelor of Architecture student at Carnegie Mellon University. Interested in computational, sustainable, and human-centered design. Practicing a rigorous, hands-on approach to digital fabrication, 3D printing, and structural mechanics.

EDUCATION

Carnegie Mellon University, Pittsburgh, PA

May 2029

Bachelor of Architecture | Additional Major in Human-Computer Interaction

- 3.88 GPA
- Dean's List F24, S25, S26
- Related Coursework:
 - 48-247

WORK EXPERIENCE

Architectural Intern, Hong Kong Huayi Design Consultants (S.Z.) LTD

December 2023 - January 2024

- Collaborated with the Director of Design to investigate opportunities for incorporating generative AI into architectural visualization workflows
- Prototyped and evaluated 10+ models across 600+ render iterations, testing inputs and parameters against the company's existing early-stage visualization process
- Presented trained models to the design team, gathered feedback on output quality and usability, and refined the system to develop a repeatable sketch-to-render workflow

Research Assistant, CFA, Carnegie Mellon University

May 2026 - Present

- Contributed to third-party wind/gravity testing with Intertek, fundraising, and permitting of the Sankofa Bamboo Greenhouse, supporting its transition from research prototype into full-scale constructed system in Homewood, Pittsburgh
- Conducted six user interviews during monthly design reviews, synthesizing feedback on user needs and priorities into actionable design iterations
- Coordinated with USDA staff, Intertek structural engineers, city permitting officials, journalists, and community partners across testing and public engagement

ADDITIONAL EXPERIENCE

AIA COTE® Ten Independent Study, AIA

January 2026 - June 2026

- Conducted independent study with a CMU professor focused on post-industrial city transformation
- Produced drawings, diagrams, and renderings analyzing environmental performance and design strategies for the COTE Ten framework

Undergraduate Mentor, CFA, Carnegie Mellon University

October 2025 - Present

- Guided first-year students in Rhino, Adobe Creative Suite, and physical modeling workflows through weekly desk critiques and project reviews
- Provided feedback on technical drawings and renderings
- Selected work exhibited in the CMU X-Change Program
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SKILLS

Technical: Python, HTML/CSS/JavaScript

Productivity: Excel, PowerPoint, Word, Tableau

Design: Axure, Figma, Adobe Creative Suite, Rhino, Revit

Language: English, Mandarin, German