

# Kaiwen Sun

Architect / Designer | [kaiwens@andrew.cmu.edu](mailto:kaiwens@andrew.cmu.edu) | 412.482.2780 | [www.linkedin.com/in/kaiwen-sun](http://www.linkedin.com/in/kaiwen-sun)

## EDUCATION

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Carnegie Mellon University, Pittsburgh, PA

Bachelor of Architecture (BAC) NAAB-accredited 5-year program

MAY 2026

Major: Architectural and Building Sciences/Technology

Minor: Intelligent Environment, Human-Computer Interaction

Overall GPA: 3.90/4.00, Honors: CMU Dean's List 2021 – 2024

Relevant Courses: Architecture Design Studios, Advanced Structure Design, Intro to Architectural Robotics, Detailing Architectures, Fundamental of Computational Design, Materials and Assembly

## SKILLS

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Skills: Adobe Suite, Rhino, Revit, CAD, Grasshopper, Karamba3D, Ameba, Goat, RhinoVault, Robot Studio, V-ray, Python

Languages: English (Bilingual Proficiency), Chinese (Native)

## WORK EXPERIENCE

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Architectural Intern, Studio Zhu-Pei

Beijing, 2024 summer

- Created architectural models and construction drawings with CAD, foam, cast concrete, and 3D printing.
- Edited bid proposals and prepared renderings for client presentations using Enscape.
- Developed concepts and preliminary designs for projects in Quanzhou and Wuhan, including structural details and project-specific furniture using Rhino and Grasshopper.

Architectural Intern, IPPR International Engineering Co., LTD.

Beijing, 2023 summer

- Drew construction plans and sections in AutoCAD for ongoing projects.
- Facilitated in the early stage of bidding projects and produced analytical diagrams.
- Operated professional building energy consumption software, calculated design-stage building performance, and generated reports on possible improvements.

Teaching Assistant, Carnegie Mellon University, School of Architecture

Pittsburgh, 2022.08 - Now

- Assisted in class: Digital Media, Material and Assembly, Intro to Structure, and Structure Design II
- Held recitations with 70 students in attendance, did technical demos, graded homework, and addressed individual student's problems or concerns.

## PROJECT EXPERIENCE

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Team Member, Robotics Fabrication Compression Only Funicular Bench

Pittsburgh, 2024.10 – Now

- Collaborated in a team of four, integrating skills from advanced structural design and robotics fabrication to explore the potential of new technologies in a real-scale project.
- Designed and fabricated a compression-only, dry-fit wooden bench with RhinoVault, optimizing the structure under extreme load conditions to determine ideal thickness and form.
- Developed a custom Grasshopper script for ABB 4400 robots, enabling precise 5-axis milling workflow.