

ESHA SHAH

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EDUCATION

CARNEGIE MELLON UNIVERSITY

Pittsburgh, PA

Bachelor of Architecture

Expected Graduation - May 2027

Relevant Coursework: Intro to Zero Energy Housing, Materials and Assembly, Building Performance Fundamentals, Design Build Studio, Digital Media, Environmental Systems, Design Ethics

SKILLS

- Revit, AutoCAD, ArchiCad, Rhino, Grasshopper, Key Shot
 - Microsoft Office, Adobe Illustrator, Adobe InDesign, Adobe Photoshop, Revu Bluebeam
 - Woodworking, 3D Printing, Laser Cutting, CNC
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EXPERIENCE

RESEARCH ASSISTANT

Pittsburgh, PA

Sankofa Bamboo Greenhouse

May 2024 - Present

- Designing and fabricating a CNC-machined connecting hub from repurposed black locust wood to stabilize supporting bamboo base columns to roof arches.
- Iterating diagrams and fabrication of metal struts to cross brace 10' x 8' bamboo arches to aid in future load testing.
- Experimenting with cement grouting methods in bamboo columns to improve load-carrying capacity.

ROOF DESIGNER AND CONSTRUCTION

Pittsburgh, PA

Peace Garden Pergola

January 2024 – May 2024

- Prototyped Lifesize roof designs, considering material cost, durability, and rain/wind protection.
- Contacted vendors to discuss color, size, cost, and durability options of corrugated polycarbonate.
- Used **ArchiCAD**, developed roofing construction drawings for team to utilize to build on site.
- With a team of three, sized, cut, and installed polycarbonate roofing on site.

ARCHITECTURAL INTERN

Philadelphia, PA

Sowinski Sullivan Architecture

June 2023 – August 2023

- Built **Revit** model of Philadelphia Airport Fire Station to be used by project lead for renovation discussions with client.
- Collaborated with team of 5 to revise drawing sets for 60% progress submission of Metropolitan Transit Authority (MTA) improvement project using **MicroStation**.
- Created detail drawings for as-built drawing set in **AutoCad** for NJ Transit Station project.
- Refined marketing brochures for completed transit projects utilizing Adobe Illustrator, Photoshop, and InDesign to enhance company branding.

ARCHITECTURAL INTERN

Philadelphia, PA

Paradigm Architecture

June 2021 – August 2021

- Revised building schedules and floor plans for 90% progress drawing set of Marriot Hotel project.
 - Shadowed head architect to client meetings and site visits to gain insights on the coordination of design concepts, client requirements, and construction processes.
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LEADERSHIP

ARCHITECTURAL + CONSTRUCTION CHAIR

January 2024 – Present

Student Dormitory Council Booth

Pittsburgh, PA

- Designing construction plans for a one-story, 16'x16'x10' themed booth in **Rhino**, to aid in communication with electrical, paints, and construction teams to build booth.
- Troubleshooting on-site challenges during construction process related to water leakage, stair stability, and roof integrity.

PRE-COLLEGE TEACHING ASSISTANT

June 2024 – August 2024

Carnegie Mellon – Architecture

Pittsburgh, PA

- Coordinated with a team of 4 to host multiple analog fabrication skills workshop for 44 students to aid in model making for their design projects.
- Ensured a productive learning environment during studio for 12 students by helping break down project briefs, provide constructive feedback, and demonstrate both critical and creative design methods.

FIRST-YEAR SEMINAR TEACHING ASSISTANT

August 2023 – December 2023

Carnegie Mellon – Architecture

Pittsburgh, PA

- Guided 70 first-year students in their transition to architecture school, providing professional and academic advice.
- Helped create lesson plans on stress and time management, public speaking, and accessing university resources under short deadlines.

ORGANIZATIONS

- Women In Transportation Seminar
- American Institute of Architectural Students