

Johnson Yang

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Passed Fundamentals of Engineering Exam (January 2024)

EDUCATION

University of Pittsburgh Swanson School of Engineering

August 2021 – Expected April 2025

B.S. in Civil Engineering, Minor in Computer Science

GPA: 3.42/4.00

- **Activities:** ASCE (2024 Symposium Paper Writer), EPA Rainworks 2023 (Team Lead), Plant2Plate (Member)
- **Coursework:** AutoCAD & Revit, Design of Structures, Foundation Engineering // Discrete Structures, Linear Algebra
- **Interests:** Green Infrastructure, Structural & Urban Design, VR/AR Applications // Reading, Tennis

EXPERIENCE

SSOE Department of Civil & Environmental Engineering

January 2024 – Present

Undergraduate Teaching Assistant

Pittsburgh, PA

- Grade assignments for 60+ students in CEE 0109: Computer Methods in Civil Engineering, a course that integrates numerical (Calculus & Linear Algebra) and computational (MATLAB) methods to solve engineering related problems
- Attend weekly meetings with professor to review assignment mistakes and regrade requests

Fascetti DISCOVER Lab

January 2023 – Present

Undergraduate Research Assistant

Pittsburgh, PA

- Develop a VR environment using Unreal Engine 5 (UE5) to highlight construction site risks and safety procedures
- Utilize UE5 blueprints, a visual scripting/programming system, to integrate gameplay logic and mechanics, visual animations, and AI generated movement to create a more realistic and immersive virtual environment for users

Acela Architects and Engineers

May 2023 – August 2023

Civil Engineering Intern

Allentown, PA

- Drafted production drawings (E&S Plans, Turning Templates, Zoning Plans, etc.) using Civil3D and Bluebeam
- Collaborated with architects and structural engineers to verify production drawing details before printing sheet sets
- Outlined utility/structural elements in base files using land surveyed points, Civil3D, Google Maps, and Google Earth
- Visited project sites to collect data using cameras and LIDAR equipment to verify and check production drawings details

University of Pittsburgh IT Help Desk

May 2022 – August 2022

Technology Consultant

Remote

- Assisted and managed 500+ individual technical cases and calls from students, professors, and alumni
- Developed troubleshooting guides for common software issues using Microsoft Word and Teams

PROJECTS

EPA 2024 Campus Rainworks Challenge

September 2023 – Present

Team Lead

Pittsburgh, PA

- Lead a team of students in a nationwide competition to propose a master plan detailing how sustainable technologies could be integrated to one's campus
- Organize weekly meetings with team members and civil engineering faculty to develop a master plan, design boards, and a video pitch

Hillman Library Historic Site Visit

November 2023 – December 2023

Digitalization in Civil Engineering (CEE 1712) Final Project

Pittsburgh, PA

- Created and presented a VR historic site of Hillman Library by utilizing historic floor plans with two other students
- Imported and edited families in Revit to add finer details (desks, bookshelves, etc.) to the interior of the Revit model
- Transferred Revit model to Twinmotion to [visualize the model](#) in VR and render HD images of the building

SKILLS

- **Languages:** English (Native), Mandarin (Native)
- **Programming:** C++, HTML/CSS, Java, MATLAB, Python
- **Software:** AutoCAD, Civil3D, Google Earth, Revit, Twinmotion, Unreal Engine 5