Johnson Yang

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EDUCATION

University of Pittsburgh Swanson School of Engineering – Pittsburgh, PA *Expected Graduation: May 2025*

- Bachelor of Science in Civil Engineering, Minor in Computer Science
- Major GPA: 3.81/4.00 | Cumulative GPA: 3.28/4.00
    - Relevant Coursework: Construction Management, Engineering Economics, Linear Algebra Materials of Construction, Mechanics of Materials, Probability & Statistics, Statics

EXPERIENCE

Civil Engineering Intern | Acela Architects and Engineers – Allentown, PA *May 2023 – August 2023*

- Drafted and revised production drawings (Construction Detail Plans, E&S Plans, Layout Plans, Turning Templates, and Zoning Plans) using Civil3D and Bluebeam
- Drafted base files in Civil3D using land surveyed points, Google Maps, and Google Earth to assist colleagues in creating production drawings by outlining utility lines and landscape/structural elements
- Learned and applied the Rational Method using Civil3D polylines and local empirical data to calculate the peak run off for impervious areas across projects
- Visited and conducted several project site visits to gather data using cameras and LIDAR scanning equipment to revise and create production drawings (Turning Templates and E&S Plans)
- Reviewed and forwarded approved/rejected submittals to proceed with construction plans and projects

Undergraduate Research Assistant | Fascetti Research Lab – Pittsburgh, PA *January 2023 – Present*

- Developing a parametric VR platform with Unreal Engine to mitigate construction site risks by immersing workers in virtual hazardous scenarios, reducing potential fatalities and injuries in the construction industry
- Manipulating scanned LIDAR point clouds of a construction site to create virtual mesh materials/layers to accelerate the process of recreating new virtual environments using Unreal Engine, Twinmotion, and Revit

Technology Consultant | Pitt IT Help Desk – Remote *May 2022 – August 2022*

- Managed 200+ individual technical cases and calls from students, professors, and alumni
- Developed and edited troubleshooting guides for software issues using Microsoft Word and Teams

ACTIVITIES

Team Lead – EPA Rainworks 2023 Challenge *March 2023 – Present*

- Leading a team of student engineers and scientists to create a campus design that demonstrates how green infrastructure can be integrated on campus to manage stormwater runoff and other environmental concerns

Member – Plant2Plate *September 2022 – Present*

- Help tend an urban student garden to provide fresh and organic produce for local students and communities
- Attend weekly after-harvest meetings to discuss garden and club improvement ideas and upcoming events

PROJECTS

Intro to Environmental Engineering Grand Challenge Project *September 2022 – December 2022*

- Designed and presented a plan to integrate bioretention on the University of Pittsburgh's campus that outlined areas where bioretention could be integrated for a more efficient and sustainable campus

2022 First-Year Engineering Conference Paper *January 2022 – April 2022*

- Researched and presented a research paper titled "How Advancements in Lithium-Ion Battery Recycling Technology Prevents the Growth of Batteries in Landfills" to educate individuals on the negative consequences of using lithium batteries and potential solutions to lithium battery waste

SKILLS

Software: Civil3D, Google Earth, Revit, Twinmotion, Unreal Engine
Programming: C++, HTML/CSS, JavaScript, MATLAB