



# JESSICA ANASTASIA

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## EDUCATION

**Bachelor of Science: Civil Engineering:** January 2021 - May 2024

*University at Buffalo, The State University of New York*

- Honors: Dean's List (3 semesters), Overall GPA: 3.74/4.0

**Associate of Arts and General Studies:** March 2019 - September 2020

*Lane Community College, OR*

- Honors: President's List (3 terms), Phi Theta Kappa Honor Society, Overall GPA: 3.95/4.0

## ENGINEERING PROJECTS

**Coordinated Traffic Signal Design of a Corridor Group Project:** September 2023 – Present

- Developed traffic simulation models with Synchro to analyze the system performance and design alternative solutions for 4 signalized intersections
- Collected data and applied knowledge learned in class toward designing real-world problem

**Building Design Project (Structural Design):** March 2023 – May 2023

- Designed a five-story office building in Downtown Buffalo while considering types of loads, sections, and specific steel materials
- Applied statics and structural analysis knowledge to determine joists, girders, braces, and columns placement/materials used – Mentored Research Badge
- Utilized LARSA Software and Excel to work on design of buildings visually

**Analyzing Traffic Design Intersection Group Project:** January 2022 – May 2022

- Analyzed the peak hour, edge data, and signal plan of an intersection in Suburban area; Buffalo, NY
- Compiled data and visual representation by using programming language and SUMO provided
- Compared present traffic data with predicted calculated future data to find solutions regarding the traffic demand problems

## WORK EXPERIENCES

**Civil Engineering Intern, Niagara County, Engineering Division:** September 2023 – Present

- Assisted senior engineers and inspectors with field surveys, inspection installed work, scanning plans, and mathematical modeling
- Performed simple design calculations and drawing in computer-aided drawing (CAD)
- Created report writings and presentations to satisfy academic credits

**CIE 334 (Soil Mechanics) & MTH 141 (Calculus 1) Teaching Assistant, UB:** June 2023 – Present

- Assisted students in group/individual tutoring/office hours in order to fulfill academic needs
- Maintained and communicated student progress and success to staff/counselor

**Senior Student Assistant, SEAS (School of Engineering and Applied Sciences):** June 2022 – Present

- Efficiently handled incoming and outgoing telephone calls, chats, and walk-in person
- Managed to input all necessary information regarding appointments and questions
- Developed leadership, teamwork, and communication with other co-workers

**Senior Peer Mentor, SEAS (School of Engineering and Applied Sciences), UB:** July 2022 – July 2023

- Provided support and resources for first-year college transition students by creating workshops and establishing trust relationships with mentees (CRLA Certificates – Certified Mentor/Tutor)

## TECHNICAL SKILLS & CERTIFICATES

Computer Skills: Windows OS, Microsoft Office (Word, Excel, PowerPoint), Google G-suites

Programming Languages: MatLab, Minitab

Drafting Programs: Civil 3D, Autodesk Revit, Google Earth Pro, LARSA, EPANET, MicroStation Open-Road

## LEADERSHIP EXPERIENCE AND ACTIVITIES

**External Relations Coordinator, Institute of Transportation Engineer (ITE),** September 2023 - present

**Vice President, Indonesian SA,** August 2021 - present

**Member, American Society of Civil Engineering (ASCE),** June 2021-present

**Language,** Indonesian, English