

## EDUCATION

**M.S. Civil Engineering**  
University of Illinois at  
Urbana-Champaign

August 2024 – May 2025

Urbana, IL

**B.S. Civil Engineering**

**Minor Computer Science**

University of Illinois at

Urbana-Champaign

August 2020 – May 2024

Urbana, IL

## SKILLS

ATMS

Traffic Analysis

Operations Management

Data Cleaning & Analysis

Project & Client Coordination

Python

SQL

## CERTIFICATIONS

**Engineer in Training, Illinois**

October 2025

## CAREER OBJECTIVE

Emerging traffic engineering professional with experience spanning in transportation consulting and research, including direct project and client management with CDOT on ITS operations and traffic data analysis with strong coordination and stakeholder communication skills. Committed to applying a data-driven, client-focused approach to transportation consulting.

## WORK EXPERIENCE

### **DECEMBER 2025 - CURRENT**

#### **ITS Consultant | Alrek, Chicago Department of Transportation | Chicago, IL**

- Led cross-functional coordination of multiple City of Chicago Department of Transportation (CDOT) Intelligent Transportation Systems (ITS) and traffic operations projects, managing schedules, deliverables, and stakeholder communication across internal teams, vendors, and consultants.
- Monitored ITS device and corridor performance via Advanced Traffic Management System, Chicago Traffic Tracker, and Miovision cameras, flagging issues and driving resolutions to maintain operational continuity.
- Analyzed traffic volume data across congested city corridors, identifying patterns and trends to support informed traffic operations and planning.
- Diagnosed and resolved traffic volume discrepancies between Miovision and R-Shiny dashboards with Parsons engineers, enhancing data reliability across reporting systems.
- Partnered with the Chicago Transit Authority (CTA) to advance Transit Signal Priority (TSP) projects, aligning bus operational requirements and managing procurement workflows.
- Prepared and cleaned signal timing datasets to ensure accuracy and integrity, supporting optimized traffic signal performance across CDOT corridors.
- Audited CDOT traffic database servers to surface and resolve discrepancies across data sources, strengthening data integrity using SQL.

### **JULY 2024 - MAY 2025**

#### **Graduate Research Assistant | University of Illinois | Urbana, IL**

- Deployed ROS-based planning/control on a physical self-driving vehicle at Illinois Center for Transportation, validating trajectory tracking performance in real-world dynamics.
- Applied traffic flow modeling and stability analysis in mixed human-autonomous environments, demonstrating reduction of stop-and-go shockwaves by autonomous vehicles.
- Analyzed Phoenix Robotaxi dataset, identifying key differences in lane-changing and car-following behavior between human and autonomous drivers.