

LOUIS SUNGWOO CHO E.I.T

louis.s.cho@gmail.com | +1 312-539-1340 | U.S. Citizen | [lotlouischoitslab.github.io](https://github.com/lotlouischoitslab)

EDUCATION

University of Illinois at Urbana-Champaign (UIUC)

Aug 2020 – May 2025

M.S. Civil Engineering (Transportation)

GPA: 3.46/4.00

B.S. (Honors) in Civil Engineering (Transportation), Minor in Computer Science

GPA: 3.55/4.00

LICENSES & CERTIFICATIONS

Engineer in Training (E.I.T), Civil Engineering

Oct 2025

Issued by National Council of Examiners for Engineering and Surveying (NCEES)

EXPERIENCE

Engineering Consultant

Dec 2025 – Present

Alrek Business Solutions - Chicago Department Of Transportation (On-Site)

Chicago, IL

- Coordinating multiple CDOT ITS and traffic operations projects by managing schedules, deliverables, and stakeholder communication across CDOT teams, vendors, and consultants.
- Monitoring ITS device and corridor performance using Advanced Traffic Management System (ATMS), Chicago Traffic Tracker, and Miovision; identifying expediciencies and follow-up tracking.
- Assisting resolving traffic volume discrepancies between Miovision and R-Shiny dashboards to CDOT staff and support maintenance and deployment.
- Supporting Transit Signal Priority (TSP) projects in Chicago by coordinating operational needs and coordinating procurement.

Graduate Research Assistant

Jul 2024 – May 2025

Smart City Laboratory, UIUC

Urbana, IL

- Applied **traffic flow modeling** and **stability analysis** in mixed human-autonomous environments to demonstrate that autonomous vehicles reduce stop-and-go shockwaves.
- Deployed **ROS-based planning/control** on a physical self-driving vehicle at the Illinois Center for Transportation; validated trajectory tracking under real-world dynamics.
- Analyzed Phoenix Robotaxi dataset; identified differences in lane-changing and car-following between human and autonomous drivers.

LEADERSHIP & SERVICE

Institute of Transportation Engineers (ITE@UIUC)

Aug 2022 – May 2025

President, Graduate Student Rep, Council Representative

Urbana, IL

- Led chapter growth, increasing event participation by 60%; organized industry panels on **ITS** and **CAVs**; directed a **transit ridership analytics project** (Top 3 Award out of 200+ at UIUC EOH); volunteered for engineering council; and contributed to case study on **High-Speed Rail (Chicago-St. Louis)**.

AWARDS

Charles E. DeLeuw Scholarship – Urban Transit Systems Travel Abroad

Mar 2025

UIUC Engineering Open House – Outstanding Exhibit, *3rd Place*

Apr 2024

Grant W. Shaw Scholarship – Leadership in Traffic Engineering

Mar 2023

SKILLS

Programming: Python, Java, C++, HTML/CSS/JavaScript, ReactJS

Transportation/Simulation: ATMS, ROS, CARLA, Gazebo, HCS

Tools: Git, Cloud, Docker, LaTeX, Bentley OpenRoads, AutoCAD, Revit

Languages: English, Korean