

LOUIS SUNGWOO CHO E.I.T

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EDUCATION

University of Illinois at Urbana–Champaign (UIUC) M.S. Civil Engineering (Transportation) B.S. (Honors) in Civil Engineering (Transportation), Minor in Computer Science	Aug 2020 – May 2025 GPA: 3.46/4.00 GPA: 3.55/4.00
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LICENSES & CERTIFICATIONS

Engineer in Training (E.I.T), Civil Engineering Issued by National Council of Examiners for Engineering and Surveying (NCEES)	Oct 2025
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EXPERIENCE

Engineering Consultant <i>Alrek Business Solutions - Chicago Department Of Transportation (On-Site)</i>	Dec 2025 – Present <i>Chicago, IL</i>
<ul style="list-style-type: none">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 expediencies 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 <i>Smart City Laboratory, UIUC</i>	Jul 2024 – May 2025 <i>Urbana, IL</i>
<ul style="list-style-type: none">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) <i>President, Graduate Student Rep, Council Representative</i>	Aug 2022 – May 2025 <i>Urbana, IL</i>
<ul style="list-style-type: none">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, <i>3rd Place</i>	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