

# LOUIS SUNGWOO CHO E.I.T

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## EDUCATION

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

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| <b>Engineer in Training (E.I.T), Civil Engineering</b><br>Issued by National Council of Examiners for Engineering and Surveying (NCEES) | Oct 2025 |
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## EXPERIENCE

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| <b>Traffic Engineering Consultant</b><br><i>Chicago Department of Transportation</i> <ul style="list-style-type: none"><li>Performing traffic signal analysis on major corridors</li><li>Contributing to transit signal priority projects.</li></ul>   | Dec 2025 – Present<br><i>Chicago, IL</i> |
| <b>Graduate Research Assistant</b><br><i>Smart City Laboratory, UIUC</i> <ul style="list-style-type: none"><li>Applied <b>traffic flow modeling</b> and <b>stability analysis</b> in mixed human–autonomous environments to demonstrate that autonomous vehicles reduce stop-and-go shockwaves.</li><li>Deployed <b>ROS-based planning/control</b> on a physical self-driving vehicle at the Illinois Center for Transportation; validated trajectory tracking under real-world dynamics.</li><li>Analyzed Phoenix Robotaxi dataset; identified differences in lane-changing and car-following between human and autonomous drivers.</li></ul> | Jul 2024 – May 2025<br><i>Urbana, IL</i> |

## LEADERSHIP & SERVICE

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| <b>Institute of Transportation Engineers (ITE@UIUC)</b><br><i>President, Graduate Student Rep, Council Representative</i> <ul style="list-style-type: none"><li>Led chapter growth, increasing event participation by 60%; organized industry panels on <b>ITS</b> and <b>CAVs</b>; directed a <b>transit ridership analytics project</b> (Top 3 Award out of 200+ at UIUC EOH); volunteered for engineering council; and contributed to case study on <b>High-Speed Rail (Chicago–St. Louis)</b>.</li></ul> | Aug 2022 – May 2025<br><i>Urbana, IL</i> |
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## AWARDS

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| 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:** ROS, CARLA, Gazebo, HCS  
**Tools:** Git, Cloud, Docker, LaTeX, Bentley OpenRoads, AutoCAD, Revit  
**Languages:** English, Korean