

<b>Career Summary</b>	Degreed and licensed civil engineer with work and research experience in the areas of highway construction, data needs, performance measures, reliability, contracting, highway design, site design, and consulting. Possess strong critical thinking and analytical skills and the ability to communicate design plans and ideas to management and professionals to initiate changes in major transportation systems.
<b>Education</b>	<p><b><u>NORTHWESTERN UNIVERSITY</u></b> Evanston, IL <b>Fourth Year Ph.D. Student, Transportation Engineering, 2011</b> Dissertation Topic: <i>Reliability Performance Measures for Work Zone Management</i> GPA 3.84/4.00</p> <p><b><u>ILLINOIS INSTITUTE OF TECHNOLOGY</u></b> Chicago, IL <b>Master of Engineering, Transportation Engineering, 2007</b> GPA 4.0/4.0</p> <p><b><u>BUCKNELL UNIVERSITY</u></b> Lewisburg, PA <b>Bachelor of Science, Civil Engineering, 1998</b> GPA 3.8/4.0, Magna Cum Laude</p>
<b>Certifications</b>	Professional Engineer, Licensed in the State of New York and Illinois Fundamentals of Engineering/Engineering in Training
<b>Professional Experience</b>	<p><b><u>NORTHWESTERN UNIVERSITY</u></b> Evanston, IL <b>Transportation System Planning and Management Teaching Assistant, 9/08-12/08, 9/09-12/09, 9/10-12/10</b> <b>Engineering Analysis Teaching Assistant, 1/08-03/08</b></p> <p><b><u>EDWARDS AND KELCEY (JACOBS ENGINEERING)</u></b> New York, NY <b>Senior Engineer, 10/05-8/07</b> <i>Engineering Projects:</i> Harmon Shop and Yard Wheel Truing Facility, Lead Civil Engineer (Design-Build) Harmon Shop and Yard Phase III Upgrade (Design-Build) New York State Route 347 Safety and Mobility Improvement Project</p> <p><b>Key Accomplishments:</b></p> <ul style="list-style-type: none"><li>• Developed initial site plans for a design-build project that were used during the successful proposal phase</li><li>• Coordinated joint venture team, structural engineers, electrical engineers, architects, sub-consultants, and the Metro-North Railroad</li><li>• Designed site grading and authored project Drainage Report</li><li>• Designed maintenance and protection of traffic plans</li><li>• Represented the State of New York Department of Transportation at a public hearing attended by approximately 500 area residents</li></ul> <p><b><u>PARSONS</u></b> New York, NY <b>Section Project Engineer/Design Engineer, 06/04-10/05</b> <i>Engineering Projects:</i> World Trade Center Transportation Hub, New York, NY Reconstruction of Streets in the Sutter Avenue Area, Queens, NY</p> <p><b>Key Accomplishments:</b></p> <ul style="list-style-type: none"><li>• Derived a model for vehicle speed and turning radius for security analysis</li><li>• Coordinated with structural engineers, architects, sub-consultants, and the Port Authority of NY and NJ</li><li>• Designed utility building connections</li></ul> <p><b><u>T.Y. LIN INTERNATIONAL</u></b> Chicago, IL <b>Section Project Engineer/Design Engineer, 1/02-05/04</b> <i>Engineering Project:</i> Rehabilitation of Wacker Drive Viaduct and Interchange, Chicago, IL</p> <p><b>Key Accomplishments:</b></p> <ul style="list-style-type: none"><li>• Developed recommendations and implemented changes for extensive utility improvement for more than 15 utilities under the upper and lower roads</li><li>• Coordinated with structural engineers, sub-consultants, building owners, utility companies, City of Chicago, and Illinois Department of Transportation</li></ul> <p><b><u>ACCENTURE</u></b> Chicago, IL <b>Consultant, Technology Competency Group, 1998-2001</b> <i>Consulting Projects:</i> Training Class Developer and Instructor; Multi-Language Web Site Development; Sales Demonstration Tool; Retail Replenishment Optimization Simulation Tool</p> <p><b>Key Accomplishments:</b></p> <ul style="list-style-type: none"><li>• Managed project budget and expenses</li><li>• Developed and taught an internal class on statistics, data mining, and interpreting results</li><li>• Worked directly with clients to analyze their business and define objectives</li></ul>
<b>Honors</b>	Delta Nu Alpha Greater Chicago Chapter Scholarship Award – 2010-2011; Top paper award: Annual Inter-University Symposium on Infrastructure Management – 2010; Dwight David Eisenhower Transportation Fellowship – 2008-2009, 2009-2010; Institute of Transportation Engineers Illinois Section Scholarship Award – 2007; Northwestern University Walter P. Murphy Fellowship – 2007-2008
<b>Academic Research</b>	Design-Build from the Contractor's Perspective – Master's Research Project Travel and Transportation Impacts of Urban Gentrification: Chicago, Illinois Case Study – Presented at TRB Meeting Impact of Changing Demographics on the Transportation System Conference, Oct 2008 Reliability Performance Measures for Work Zone Management – Ph.D. Dissertation Topic
<b>Applications</b>	AutoCad, Microstation, VISSIM, Synchro, Geopak, Hydraflow, Autoturn, Guidesigns, Microsoft Office, Minitab, SPSS, TransCad