

Kristopher D. Ball, P.E.

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Education

University of Michigan, Ann Arbor, MI 2004-2009

- Graduated Cum Laude with a Bachelor of Science in Civil Engineering
- Base coursework includes: Reinforced Concrete Design, Structural Steel Design, Structural Analysis, and Civil Engineering Materials
- Five time Dean's List honoree-Fall 2006, Winter 2007, Fall 2007, Winter 2008, and Fall 2008
- 3.2/4.0 cumulative GPA: 3.8/4.0 civil engineering GPA

Professional Experience

National Forum on Higher Education for The Public Good, Ann Arbor, MI 2007-2009

- Worked as an undergraduate research assistant
- Helped to guide short term and long term direction of numerous research projects
- Served as ArcGIS support for higher education research projects
- Facilitated community dialogues across the state of Michigan as a contributor to the Great Lakes Revitalization Project
- Gained valuable experience in drafting a \$5,000 research grant to study the effects of community service on college students
- Served as website manager

URS Corporation, New York, NY Summer 2008, Summer 2009, January 2011 – July 2011

- Worked as a traffic planner
- Performed extensive analysis of New York City and New Jersey traffic networks utilizing HCS, Synchro, and VISSIM transportation analysis software
- Developed maps of potential transit routes within New York City utilizing ArcGIS geographic information system software
- Transcribed public opinions at workshops regarding bus rapid transit across New York City
- Performed qualitative analysis of roadway and sidewalk conditions in downtown Brooklyn, New York and Chinatown (Manhattan); specifically regarding the feasibility of specific roads as temporary transit corridors
- Participated in analyzing the impact of street regulations on the accessibility of trucks and other loading vehicles in an important commercial and residential district in Queens, NY

Kimley-Horn and Associates, Fort Worth, TX 2011-2012

- Worked as an Analyst, providing support for Engineers on several transportation engineering related projects
- Aided in the design of several traffic signals near Fort Worth, TX

- Served a vital role in traffic signal timing projects in Mansfield, Stephenville, and Granbury, TX as well as Tulsa, OK. Aided in the development of methodology for performing ADA (Americans with Disabilities Act) self-evaluations and transition plans for the cities of Frisco, TX and Tulsa, OK. Performed a speed recommendation study for several rural corridors in west Texas.

The Mannik & Smith Group, Maumee, OH

2012-2021

- Currently working as a Senior Transportation Engineer
- Developed transportation master plans (includes the definition of performance goals, development of analysis methodology, development of alternatives for meeting performance goals, and prioritization of alternatives) for multiple large scale, mixed use developments in Downtown, Detroit, MI.
- Worked with the Southeast Michigan Council of Governments (SEMCOG) and the City of Detroit Traffic Engineering Division to project traffic pattern changes and develop permanent roadway geometries/traffic control related to the vacation of a 0.5 mile public roadway segment in southwest Detroit, Michigan.
- Performed traffic impact studies for (includes data collection, trip generation based on projected land use, trip distribution, and traffic operations analysis) several private developments in southeast Michigan and throughout the state of Ohio.
- Developed alternative evaluation reports (includes the definition of performance goals, analysis, development of improvement alternatives, and prioritization of improvement alternatives) for roadway improvement projects in Akron, OH, and Eastlake, OH.
- Developed traffic signal designs and traffic site plans for La-Z-Boy headquarters (Monroe, Michigan), Hudson's Site (downtown Detroit, Michigan), Monroe Blocks Site (downtown Detroit, Michigan), Wayne County Jail Facility (downtown Detroit, Michigan), Menard's (Wixom, Michigan), Sidecut Crossing (Maumee, Ohio)
- Developed the Downtown Toledo Transportation Study (in conjunction with the City of Toledo) that includes analysis of, and recommendations for several major roadways in Downtown Toledo, including: Monroe Street, Summit Street, Cherry Street, Michigan Street, Erie Street, Jefferson Street, Huron Street, 14th Street, 11th Street, Jackson Street, and Adams Street. This study also included the development of recommendations for commercial truck traffic movements through and around downtown, as well as recommendations for improving connections to adjacent neighborhoods.

Publications

- Co-Author: Sperry, Ball, and Morgan. Cluster Analysis of Intercity Rail Passengers in an Emerging High-Speed Rail Corridor. Accepted for presentation at Transportation Research Board Annual Meeting 2011, January 2011.
- Published in Transportation Research Record 2261.

References

- Jean M. Hartline, P.E., PTOE, Principal (Current Supervisor), The Mannik & Smith Group, Phone: (419) 279-5174; Email: jhartline@manniksmithgroup.com
- Steve Deibol, P.E., PTOE, Senior Traffic Engineer (Former Supervisor)
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