

Trevor Joseph Kirsch, B.S., E.I.T.

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Professional Summary

Graduate student with a passion to efficiently transform our surrounding transportation infrastructure utilizing engineering principles. Confident leader with an aspiration to solve important problems regarding transportation, traffic safety, and signal timing. Dedicated individual striving to maintain the highest code of professionalism and ethics.

Education

Iowa State University, Ames, IA

Master of Science in Civil Engineering

May 2016 - Present

Anticipated May 2018

Wayne State University, Detroit, MI

Bachelor of Science in Civil Engineering

University and Departmental Honors

August 2012 – May 2016

Summa Cum Laude Distinction

Grade Point Average: 3.88

L'Anse Creuse High School North, Macomb, MI

Class of 2012 Salutatorian

Math, Science, Technology Program Graduate

September 2008 – May 2012

AP Credits: 27

Grade Point Average: 4.013

Relevant Coursework

Civil Engineering Materials, Transportation Design, Introduction to Geotechnical Engineering, Transportation Engineering, Introduction to AutoCAD in Civil Engineering, Reinforced Concrete Design, Engineering Economy, Highway Design, and Senior Design Project

Engineering Honors Thesis Topic: Prediction of Pedestrian Crashes at Midblock Crossing Locations using Site and Behavioral Characteristics

Work Experience

Wayne State University Transportation Research Group

May 2013 – April 2016

Student Research Assistant

- Collected data in a professional manner and evaluated collected information using a wide variety of statistical means
- Wrote technical reports and worked as a team player in a professional environment
- Crafted documents and presentations to train employees and hosted training sessions while leading specific projects
- Presented research at the 2013 Transportation Research Board's Annual Meeting to over 11,000 professionals
- Published eight separate technical reports for a variety of organizations

Technical and Computer Skills

Software: AutoCAD, HCS 2000, ArcGIS, Vissim, SPSS, Arduino

Applications: Microsoft Word, Microsoft Excel, Microsoft PowerPoint

Engineering Projects

Senior Design Project, Wayne State University

Winter 2016

- Designed transportation aspects of alternative solution to dredging problem presented by U.S. Army Corps of Engineers, Detroit district
- Crafted bi-weekly milestone reports for client to verbally and visually describe progress
- Drafted and presented findings to client and various stakeholders

Highway Design, Wayne State University

Winter 2016

- Worked as a team to design horizontal and vertical curvature of proposed highway near East Lansing, Michigan
- Documented progress in technical report and drafted design in AutoCAD
- Engineered feasible alternative design for interchange near Ann Arbor, Michigan

Transportation Engineering, Wayne State University

Winter 2015

- Project Manager amongst a group of peers tasked with engineering a highway throughout the Upper Peninsula, Michigan
- Computed trip generation and parking demand for client
- Presented findings orally and through technical documentations

Honors and Awards

Graduate Research Assistantship, Iowa State University

Summer 2016

Presidential Scholarship, Wayne State University

Fall 2012

Scholarship, Institute of Transportation Engineers

Spring 2013

Scholarship, Michigan Society of Professional Engineers

Fall 2012