

Ellen Nightingale, E.I.T.

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EDUCATION

Iowa State University

Ames, IA

Master of Science: Civil Engineering (Transportation)

Expected May 5, 2017

Graduate Research Assistant

Thesis: In-place Performance Evaluation of Cable Median Barrier in Iowa

Trinet Fellowship – Engineering Education for Elementary Students

GPA: 3.65

Michigan Technological University

Houghton, MI

Bachelor of Science: Civil Engineering

May 2, 2015

Minors: German and Municipal Engineering

GPA: 3.69 | Honors: Cum Laude

FE Exam Passed 1/19/2015

WORK EXPERIENCE

Mead & Hunt

Lansing, MI

Aviation Engineer LTE

May 2015 - August 2015

- Inspected construction and wrote daily reports on two projects:
 - A 5000' runway narrowing and lighting reconstruction project
 - Shoulder reconstruction and lighting replacement on 6500' of a 12,366' runway
- Evaluated pavement classifications numbers for several airports
- Compiled final reports and updated specifications for several projects

Michigan Technological University

Houghton, MI

Teaching Assistant

August 2014 – May 2015

- Assisted teaching Introduction to Spatial Visualization and Engineering Fundamentals
- Hosted review sessions and graded homework
- Attended class and answered questions

Resident Assistant

August 2013 – May 2014

- Led monthly meetings and organized weekly developmental programs
- Patrolled building enforcing policy and answered the duty hotline
- Mediated roommate conflicts

Michigan Department of Transportation

Benton Harbor, MI

Construction Aide

May 2013 - August 2013

- Inspected the construction of six projects:
 - US-31 Bridge approach reconstruct/epoxy overlay, US-12 HMA overlay, US-12 road reconstruction, I-94 dynamic message board signing, I-94 lane widening/culvert replacement, tri-county pavement markings project
- Wrote daily inspector reports and paid for pay items

Design and Operations Co-op

April 2012 - August 2012

- Designed two HMA Capital Preventative Maintenance Projects, drew cross-section typicals, details, and wrote proposals
- Assisted two projects for US-12, drawing details and calculating quantities
- Updated and maintained sign inventory
- Gathered speed study data

Transportation and Civil Intern (TRAC Intern)

June 2011 - July 2011

- Designed a cable median barrier system
- Inspected bridges for routine maintenance
- Shadowed construction engineers and material testing

University of Notre Dame: QuarkNet Center

South Bend, IN

Fundamental Particle Researcher

June 2010 - July 2010

LEADERSHIP

Transportation Student Association

Iowa State University

President

May 2016 – Current

- Event chair for inaugural ITE Midwest Student Leadership Summit, attracted 82 students from 13 Universities

Engineering Student Council Representative

August 2015 – May 2016

- Organized involvement in Engineering Middle School Day
- Planned the inaugural Iowa Concrete Industry Night in conjunction with the Iowa Concrete Paving Association, bringing in five speakers from industry and 75 students

Tau Beta Pi – Iowa Alpha

Iowa State University

Chapter Survey Officer

December 2015 - Current

- Led a group of 16 initiates to plan a new K-12 Outreach program to be implemented in Fall 2016

CCEE Graduate Student Council

Iowa State University

Council Chair

September 2015 – August 2016

- Executed the 3rd Annual Graduate Poster Competition with record attendance, participants and judges from the public sector, industry, and academia
- Granted over \$3,000 in scholarships to graduate students seeking travel assistance

St. Albert the Great Student Ministries

Michigan Technological University

Winter Carnival Committee Head Chair

November 2014 - February 2015

- Won best all-nighter statue award University-wide
- Won 3rd place in overall for student organizations division
- Competed as finalist for the Winter Queen Competition
- Competed in a record number of events for the organization (13 of 16) and first time placing since 2007

Orientation Coordinator

May 2014 – September 2015

- Developed a comprehensive orientation program for incoming freshman students with 31 events spanning nine days before classes, fitted around the university orientation
- Directed seven major evening events with attendance between 20-40 students
- Coordinated volunteers and planned budgeting for free food provided at events
- Guided a hand-written welcome letter writing program with 19 letter-writers and over 100 letters to Catholic incoming freshman before arriving on campus

Vice President (Parish Council and Student Organization)

May 2012 – May 2014

- Implemented an annual leadership summit for professional development of the 16 student ministry leaders
- Planned major church events like the 50th anniversary alumni weekend
- Offered insights to church leadership and represented students in executive parish decisions

Adoration Ministry Leader

September 2011 – May 2015

- Increased weekly attendance from 0 to 20 students after the first year of leadership, and maintained weekly attendance of 30 students
- Wrote weekly newsletter with theological insights to list of 126 students

Michigan Tech Jazz Association

Michigan Technological University

Vice President

May 2012 - May 2014

- Founded the organization on campus to promote jazz and connect with alumni
- Recruited musicians to play jazz music around campus for “Random Acts of Jazz”

INVOLVEMENT

- Flying Cyclones (2015-Current)
- American Society of Civil Engineers (2012- 2015)
- WMTU 91.1 FM – Disc Jockey (2013-2015)
- Michigan Tech Student Foundation Student Service (2012- 2015)
- International Club – Ambassador (2011-2015)
- Djangology Jazz Band (2011-2013)
- R&D Big Band Jazz (2011 -2012)

AWARDS

- Dwight David Eisenhower Graduate Fellowship (2015-2017)
- Tau Beta Pi Honor Society Member (2014 – Current)
- Chi Epsilon Honor Society Member (2013 – Current)
- Winter Carnival Queen Pageant Finalist (2015)
- MTSF Academic Achievement Award (2014)
- Women in Transportation Scholarship (2012)
- Partners for the Advancement of Collaborative Engineering Education Competition – Finalist (2011)
- Michigan Tech Presidential Leading Scholars Award (2011-2015)

RELEVANT COMPUTER SKILLS

Modelling/BIM: AutoDesk Civil3D, MicroStation, AutoDesk Revit, Siemen’s NX, ArcGIS, SewerCAD, TransCAD

Programming: MatLab, C++, Visual Basic Application (VBA)

Other: Windows Office Suite (Word, Excel, PowerPoint, Outlook, Visio), Primavera, FieldBook/FieldManager, R-Studio, paint.NET