

Joseph Edward Kopacz

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SUMMARY

Mechanical Engineer with 1-2 years of experience. Previous work experience includes work in the nuclear power generation, HVAC design, and building & industrial energy efficiency and conservation industries.

PROFESSIONAL WORK EXPERIENCE

Dresden Generating Station – Exelon Corporation **Morris, IL**
March 2017 – Present
System Engineer – Primary Systems Group

- Performed trending and monitoring activities for the HPCI and Isolation Condenser Systems.
- Assisted in 3-4 troubleshooting teams per year to restore components and systems to operation.
- Evaluated work crews on industrial & nuclear work practices as Site Safety Champion 1-2 days/year.
- Organized 2 community volunteer events during 2017-2018 as Dresden Site Impact Leader.
- Participated in 3-4 Stay in School Mentoring Program events per year around the Chicagoland area.

Barnes & Noble Booksellers **Davenport, IA**
October 2016 – March 2017
Bookseller & Cashier

- Provided fast cashiering services to 50-200 customers per shift according to company practices.
- Assisted 5-50 customers per shift with locating and/or ordering desired books & merchandise.
- Completed 5-12 voluntary loss prevention training modules per shift through LP Connection.
- Drove membership program, gift card sales, and seasonal promotions during all shifts.

INTERNSHIP WORK EXPERIENCE

Byron Nuclear Generating Station – Exelon Corporation **Byron, IL**
June 2014 – August 2014
Summer Engineering Intern – Design Mechanical

- Reviewed ~400 mechanical calculations to determine inclusion on key calc list and review priority.
- Verified the quantity/location of key structural elements during construction of the site FLEX building.
- Explored other plant activities, including EO rounds, SNM and spent fuel walk-downs, and Core Design.

Duane Arnold Energy Center - Nextera Energy **Palo, IA**
May 2013 – August 2013
Summer Intern – Programs Engineering, Inspections & Materials Group

- Developed inspections lists for check valves from EPRI, INPO, and SOER 86-03 recommendations.
- Updated data on 80 safety/relief valve maintenance actions completed through the previous year.
- Compiled data on 100 tanks & heat exchangers with safety-related protective coatings.
- Supported BADGER testing of spent fuel pool racks as part of license renewal requirements.

International Business Machines Corporation (IBM) **Rochester, MN**
May 2012 – December 2012
Co-Op Engineer – Lab, Capital, and Hardware Asset Management

- Supported the planning/execution of \$2.6 million of mechanical and electrical infrastructure projects.
- Identified critical lab electrical upgrades & secured \$300K of funding with site electrical engineer.
- Researched and presented a comprehensive \$173K energy savings plan tied to lab PUE reduction.
- Developed & implemented a hot-cold aisle arrangement for a 20,000 ft² systems development lab.

Biological Materials and Processes – Research Experience for Undergraduates **Ames, IA**
June 2011 – August 2011
Research Intern – Biorenewables Research Laboratory

- Determined particle size/combustion qualities of pyrolysis biochars with ASTM and DOT procedures.
- Collected/organized data for Argonne National Laboratories from ~100 papers in existing literature.
- Assisted in the writing and editing of three grant proposals ranging from \$50,000 – 200,000.

EDUCATION

Iowa State University B.S. Mechanical Engineering – <i>Magna cum Laude</i> 1 st Minor: <i>Nuclear Engineering</i> 2 nd Minor: <i>Energy Systems</i>	2012 – 2015 Cumulative GPA – 3.72
Scott Community College Pre-Engineering	2009 – 2011 Cumulative GPA – 3.86
University of Northern Iowa B.A. Music	2003 – 2009 Cumulative GPA – 3.49

ACADEMIC WORK EXPERIENCE

Industrial Assessment Center (IAC) <ul style="list-style-type: none">Performed energy audits with students and professors at manufacturing facilities in the Midwest.Wrote reports on opportunities identified during audits specifying energy savings and payback.Attended the World Energy Engineers Congress in Washington DC as a WEEC scholar in 2013 & 2014.	February 2012 – May 2015
Undergraduate Teaching Assistant – Thermodynamics II (ISU) <ul style="list-style-type: none">Graded quizzes and weekly homework for 50-75 undergraduate students.Proctored make-up exams about once a month.	January 2014 – May 2015
Advanced Renewable Technologies International (ISU) <ul style="list-style-type: none">Edited ~25 documents, including grant proposals, competition applications, letters, and contracts.Supported activities related to construction of experimental biochar reactors as needed.	January 2013 – May 2015
Science & Mathematics Tutor – Student Success Center (SCC) <ul style="list-style-type: none">Tutored 5 to 20 students per day on a first come, first served basis.Assisted students as needed with Microsoft office, MathXL, and other computer issues.	January 2010 – December 2011

COMMUNITY INVOLVEMENT

National Alliance on Mental Illness (NAMI) – Volunteer	Summer 2017 – Present
Will County Humane Society – Dog Walker	Summer 2017 – Present
Blood and Platelet Donor (MVRBC and Heartland Blood Centers)	2004 – Present
Euphoniumist – St. John Vianney Brass Ensemble	Fall 2009 – Present
National Eagle Scout Association (Troop 82 – Bettendorf, IA)	2003 – Present

RELEVANT SKILLS & CERTIFICATIONS

- E.I.T. Pending – F.E. Passed August 2016
- Design: *Creo Elements/Pro* (200 hours) | *AutoCAD* (200 hours) | *Solidworks* (100 hours)

PROFESSIONAL ORGANIZATIONS

American Nuclear Society - ISU Student Section (ISU-ANS) <ul style="list-style-type: none">President (Fall 2013 - Spring 2014) Chair of Special Events (Fall 2014 – Spring 2015)Worked as a Student Intern at the 2014 ANS Utility Working Conference (UWC) in Amelia Island, FL.Planned and organized numerous guest speakers, plant visits, and volunteer opportunities.Attended national student conferences in 2012, 2013, and 2014.	Spring 2012 - Present
American Society of Mechanical Engineers	Spring 2012 – Present
American Society of Heating, Refrigerating, and Air-Conditioning Engineers	Fall 2014 – Present
Tau Beta Pi – Engineering Honors Society	Spring 2014 – Present
Pi Tau Sigma – Mechanical Engineering Honors Society	Spring 2013 – Present