

MARIA D BLANEK

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CAREER OBJECTIVE

Obtain a position in a challenging environment where I can be a member of a great team to start my career in the engineering workforce following graduation in May of 2016.

EDUCATION

Iowa State University

Bachelor of Science: Mechanical Engineering
Expected Graduation Date: May 2016

Ames, IA
January 2011 - Present

University of Missouri

Bachelor of Science: Mechanical Engineering

Columbia, MO
August - December 2010

Edina Senior High School

Edina, MN
September 2006 - June 2010

PROFESSIONAL EXPERIENCE

- **Alliant Energy - Mechanical Maintenance Systems Engineer**
 - Project manager for efforts to replace and update boiler's natural gas burner equipment in order to have reliable equipment which complies with NFPA standards. Estimated \$250,000 project.
 - Identify and implement new process metering for export steam and natural gas usage.
 - Maintenance support in creating spare parts inventory as well as preventive maintenance and job plans for new mercury emission control systems at plant.
- **Industrial Assessment Center - Undergraduate Assistant**
 - Conduct energy audits with team at manufacturing facilities, looking into energy savings, productivity enhancement as well as waste minimization measures.
 - Write reports reflecting findings: expected savings, technical calculations, implementation costs, and payback calculations.
 - Joined team for 14 audits; D.O.E. Certified I.A.C. Student
 - Continuing education
 - U.S. D.O.E. Steam Specialist Training | U.S. D.O.E. Compressed Air Training
- **Virtual Reality Applications Center - Undergraduate Assistant**
 - Virtual reality research with professors and graduate students. Assist in making Nexus robot, work with Haptic devices, Multimodal Experience Testbed and Lab coding, and The Road Less Traveled events along with other mechanical and electrical team support.
 - Report and instructions for creating Low-Cost Virtual Reality System; create SolidWorks models of 3D printed, laser cut, and purchased parts and write assembly instructions to be applied by other facilities.
- **Altec Industries - Manufacturing Engineer**
 - Support manufacturing team with scheduling and part database, identify and employ quality and safety improvements, implement cost savings, create and update work instructions, work with suppliers and other plants, improve efficiency and support production through Kaizen principles.
 - Personal estimated annual cost savings identified and implemented: \$320,000
 - Manufacturing projects implemented: 35
 - Rapid Continuous Improvement Events led: 3

Cedar Rapids, IA
June 2015 - August 2015

Ames, IA
February 2013 - Present

Ames, IA
August 2012 -
September 2013

Saint Joseph, MO
January - August 2012

SKILLS

- Microsoft Office
- SolidWorks
- Manufacturing equipment, machinery and welding
- Proficient in Spanish

ACTIVITIES & LEADERSHIP

- ASHRAE: Outreach Chair
- Attended 2015 ASHRAE Winter Conference & AHR Expo
- Women in Mechanical Engineering Mentor
- Formula SAE Team Member