

Andrew C. Jensen

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EDUCATION

University of Illinois at Urbana-Champaign

B.S. Mechanical Engineering (May 2017)

Dean's List

James Scholar Honors Program

Urbana, IL

GPA 3.88/4.00

7/7 Semesters

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WORK EXPERIENCE

Caterpillar, Inc., Large Power Systems Division

Engineering Intern, Performance Data Management

Lafayette, IN

Summer 2016

- Developed custom data analysis interface to generate engine performance reports aiding upper management decisions
- Reduced report generation time from 2 weeks to under 5 minutes
- Interfaced with over 20 engineers to develop a robust application in under 7 weeks
- Implemented the application at the Lafayette engine test facility with plans for additional facilities

Caterpillar, Inc., Advanced Components and Systems Division

Engineering Intern, Telematics System Integration

Mossville, IL

Summer 2015

- Performed system validation for a new telematics product for Caterpillar machines
- Saved over \$1 million per year through data processing optimization
- Developed solutions to system problems and implemented the changes
- Engaged component teams to translate "voice of customer" into design requirements for new product features

Maui Jim, Inc., Prescription Sunglasses Lab

Lab Assistant, Production Manufacturing Team

Peoria, IL

Summer 2014

- Worked as part of a team to manufacture high quality prescription sunglasses
- Reduced down time on 8 machines by addressing chronic equipment failures
- Introduced ergonomic improvements to the manufacturing workspace
- Assigned to train new employees on necessary job skills

Center for Academic Resources in Engineering, UIUC

Tutor/Peer Advisor

Urbana, IL

Spring 2015 - Present

- Tutored over 20 undergraduate STEM courses and led review sessions for upcoming exams
- Guided an average of 15 students per session – 2 sessions per week

LEADERSHIP AND ACTIVITIES

Tau Beta Pi National Engineering Honor Society: Member

Fall 2014 - Present

"Multi-Terrain Walking Robot" Mechanical Design Project: Team Lead

Spring 2016

- Led a team of 4 to finish the project under budget in only 4 months
- Designed and fabricated a robust quadrupedal single motor robot for a speed competition
- Created a custom testbed in MATLAB/CREO to optimize motion

"ElectroLock" Design for Manufacturability Project: Team Lead

Fall 2015

- Worked with a client to meet all customer expectations while maintaining the original project timeline
- Designed and fabricated electrical outlet that prevents accidental unplugging of devices
- Optimized product usability and function through multiple iterations

"Rubik's Cube Solver" Android Application (Java): Lead Developer

Spring 2014

- Created an app to help beginners master the basics of solving a Rubik's cube puzzle
- Application solves any given Rubik's cube configuration
- Automatically generates instructions and 3D animation to teach using multiple methods of learning

University of Illinois Marching Illini (Drumline), Volleyball Band, and Basketball Band

Fall 2013 - Present

The Ill Harmonic (Men's A Cappella): Music Director and Founding Member

Fall 2013 - Spring 2014

Professional Drummer: Theatres, churches, and instructor

Spring 2012 - Present

TECHNICAL SKILLS

Design Tools: CAD (PTC CREO/Pro Engineer), aPriori, Rapid Prototyping, FEA

Software Tools: MATLAB, SIMULINK, MS Access, LaTeX

Programming Languages: VBA, SQL, Java, C, C++