

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 8/8 Semesters 8/8 Semesters
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WORK EXPERIENCE

Caterpillar, Inc., Large Power Systems Division <i>Engineering Intern, Performance Data Management</i> <ul style="list-style-type: none">Developed custom data analysis interface to generate engine performance reports aiding upper management decisionsReduced report generation time from 2 weeks to under 5 minutesInterfaced with over 20 engineers to develop a robust application in under 7 weeksImplemented the application at the Lafayette engine test facility with plans for additional facilities	Lafayette, IN <i>Summer 2016</i>
Caterpillar, Inc., Advanced Components and Systems Division <i>Engineering Intern, Telematics System Integration</i> <ul style="list-style-type: none">Performed system validation for a new telematics product for Caterpillar machinesSaved over \$1 million per year through data processing optimizationDeveloped solutions to system problems and implemented the changesEngaged component teams to translate "voice of customer" into design requirements for new product features	Mossville, IL <i>Summer 2015</i>
Maui Jim, Inc., Prescription Sunglasses Lab <i>Lab Assistant, Production Manufacturing Team</i> <ul style="list-style-type: none">Worked as part of a team to manufacture high quality prescription sunglassesReduced down time on 8 machines by addressing chronic equipment failuresIntroduced ergonomic improvements to the manufacturing workspaceAssigned to train new employees on necessary job skills	Peoria, IL <i>Summer 2014</i>
Center for Academic Resources in Engineering, UIUC <i>Tutor/Peer Advisor</i> <ul style="list-style-type: none">Tutored over 20 undergraduate STEM courses and led review sessions for upcoming examsGuided an average of 15 students per session – 2 sessions per week	Urbana, IL <i>Spring 2015 - Present</i>

LEADERSHIP AND ACTIVITIES

Tau Beta Pi National Engineering Honor Society: Member	<i>Fall 2014 - Present</i>
"Multi-Terrain Walking Robot" Mechanical Design Project: Team Lead <ul style="list-style-type: none">Led a team of 4 to finish the project under budget in only 4 monthsDesigned and fabricated a robust quadrupedal single motor robot for a speed competitionCreated a custom testbed in MATLAB/CREO to optimize motion	<i>Spring 2016</i>
"ElectroLock" Design for Manufacturability Project: Team Lead <ul style="list-style-type: none">Worked with a client to meet all customer expectations while maintaining the original project timelineDesigned and fabricated electrical outlet that prevents accidental unplugging of devicesOptimized product usability and function through multiple iterations	<i>Fall 2015</i>
"Rubik's Cube Solver" Android Application (Java): Lead Developer <ul style="list-style-type: none">Created an app to help beginners master the basics of solving a Rubik's cube puzzleApplication solves any given Rubik's cube configurationAutomatically generates instructions and 3D animation to teach using multiple methods of learning	<i>Spring 2014</i>
University of Illinois Marching Illini (Drumline), Volleyball Band, and Basketball Band	<i>Fall 2013 - Present</i>
The Ill Harmonic (Men's A Cappella): Music Director and Founding Member	<i>Fall 2013 - Spring 2014</i>
Professional Drummer: Theatres, churches, and instructor	<i>Spring 2012 - Present</i>

TECHNICAL SKILLS

Design Tools: CAD (PTC CREO/Pro Engineer), aPriori, Rapid Prototyping, FEA
Software Tools: MATLAB, SIMULINK, MS Access, LaTeX
Programming Languages: VBA, SQL, Python