

# PAUL DONALD GESSLER

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EDUCATION	<b>Marquette University</b> , Milwaukee, Wisconsin <i>Master of Science, Mechanical Engineering</i> 2012 – 2014 <ul style="list-style-type: none"><li>- Specialization: Energy Systems</li><li>- Thesis: One-Dimensional Model of a Refrigeration Cycle Compressor Test Block</li><li>- Teaching Assistant for Controls, Fluid Mechanics, and Thermodynamics Courses</li></ul>
	<b>Milwaukee School of Engineering</b> , Milwaukee, Wisconsin <i>Bachelor of Science, Mechanical Engineering</i> 2008 – 2012 <ul style="list-style-type: none"><li>- Cumulative GPA: 3.56; Mathematics Minor</li><li>- Senior Project: Modeling of Pulsed Jet Impingement on Brittle Materials</li></ul>
SOFTWARE PROFICIENCIES	Autodesk Products, SolidWorks, MATLAB/Simulink, Visual Studio, C/C++, ANSYS (APDL, FLUENT, Workbench), STAR-CCM+, Engineering Equation Solver, REFPROP, Adobe Creative Suite, Microsoft Office Suite, L <sup>A</sup> T <sub>E</sub> X, Telelogic Change, Vim, Linux, Mac OS X, Windows
HONORS AND AWARDS	Outstanding Student Chapter Award, SAE International, Detroit, MI 2011, 2012 Outstanding Collegiate Chapter, SAE Milwaukee Section, Milwaukee, WI 2011 First Place, Design Report Competition, SAE Supermileage, Marshall, MI 2011 Dean's List, MSOE, Milwaukee, WI 2008 – 2012
PROFESSIONAL EXPERIENCE	<b>Johnson Controls, Inc.</b> , Milwaukee, WI <i>Graduate Intern, Control Applications and Advanced Algorithms</i> 2010 – 2012 <ul style="list-style-type: none"><li>- Designed, implemented, and tested 30 warning events for chiller control software</li><li>- Planned and led automated regression testing of controls performance and 210 safety events</li><li>- Improved automated testing speed in Excel/MATLAB/Simulink (simulation and emulation) by 15%</li><li>- Created and distributed release notes documenting new features, enhancements, and known issues</li><li>- Extended numerical chiller models to include two more vessel configurations and enhanced stall</li></ul>
LEADERSHIP EXPERIENCE	<b>MSOE Society of Automotive Engineers</b> , Milwaukee, WI <i>Chairman</i> 2011 – 2012 <ul style="list-style-type: none"><li>- Oversaw the general operation of the 150-member MSOE Student Chapter</li><li>- Coordinated with professionals and students in nearby SAE Chapters to organize monthly events</li><li>- Other Previous Positions: Program Coordinator and Webmaster (2010 – 2011)</li></ul> <i>Technical Lead, Supermileage Vehicle Steering Team</i> 2010 – 2011 <ul style="list-style-type: none"><li>- Designed, analyzed, manufactured, and tested suspension frame</li><li>- Responsible for steering/brake system overall performance and component integration</li><li>- Provided weekly progress reports to Project Manager and other team leaders</li><li>- Co-authored and edited the Design Report (awarded First Place, Design Report Competition)</li></ul>
	<b>MSOE Residence Life</b> , Milwaukee, WI <i>Resident Assistant</i> 2010 – 2012 <ul style="list-style-type: none"><li>- Provided academic, personal, and professional advice for 35 students</li><li>- Planned and promoted events for residents, such as résumé workshops and indoor rock climbing</li><li>- Enforced MSOE Residence Life policies, resolving roommate conflicts and violations as needed</li></ul>
ACTIVITIES & INTERESTS	Varsity Lightweight Crew 2008 – 2010, Cyclocross, Running, Backpacking, Photography, Trumpet Performance, Web Design