

# Zachary C. Nielsen

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CONTACT INFORMATION	Hydraulic Test Facility College of Engineering University of Toledo, Toledo, Ohio	cell: XXX.XXX.XXX e-mail: Hello@mail.com website: zachnielsen.flooha.com
RESEARCH INTERESTS	Hydraulic Hybrid Vehicle Development, Hydraulic Test Facility Design Implementation, Solid Mechanics and Dynamics.	
EDUCATION	<b>University of Toledo</b> , Toledo, Ohio <i>Master of Science, Mechanical Engineering</i> • Expected graduation date: August 2010 <i>Bachelor of Science, Mechanical Engineering</i>	<b>January 2009 – Present</b> <b>August 2004 – December 2008</b>
PROFESSIONAL EXPERIENCE	<b>University of Toledo</b> , Toledo, Ohio <i>Research Assistant</i> Research assistant in the Hydraulic Test Facility, testing hydraulic components to improve efficiency working toward a Hybrid Hydraulic Vehicle design. Helped with initial setup and implementation of the lab, assisted in wiring of DAQ system, and setup experiments for testing. <b>University of Toledo</b> , Toledo, Ohio <i>Course Instructor</i> Taught rock climbing skills ranging from beginner through advanced to University of Toledo students for course credit. Structured curriculum, class outlines, and grading for classes up to thirty students. <b>MTD Products</b> , Valley City, Ohio <i>Mechanical Engineering Co-op</i> Worked with leadership team to develop and prototype a new product concept. Tested and redesigned a safety assembly to meet compliance standards. Re-allocated surplus hardware to existing products. <b>Curtiss Wright Flow Control Corporation</b> , Brecksville, Ohio <i>Manufacturing Engineering Department</i> Maintained process and setup sheets. Created tooling drawings and tool catalogs. Developed floor plan and layout for a Mori Seiki HMC.	<b>January 2009 – present</b> <b>January 2009 – December 2009</b> <b>August 2006 – May 2008</b> <b>May 2005 – August 2005</b>
SOFTWARE EXPERIENCE	Windows 2000/XP/Vista/7, Debian Linux, Microsoft Office, L <sup>A</sup> T <sub>E</sub> X, Matlab r2009a, MathCAD 14, Unigraphics NX5, AutoCAD 2006, Adobe Photoshop CS4	
SPECIAL SKILLS AND INTERESTS	Computer savvy; maintain my own website as a hobby. Trained instructor through the American Red Cross for First Aid and CPR. Familiar with a wide range of manufacturing equipment. Very comfortable in a hands on environment. Awarded Eagle Scout Rank, Boy Scouts of America (2003).	
REFERENCES	<b>Dr. Walter W. Olson</b> Professor University of Toledo Toledo, Ohio phone: <i>available on request</i> e-mail: <i>available on request</i>	<b>Gary Walters</b> Vice President of Engineering MTD Products Valley City, Ohio phone: <i>available on request</i> e-mail: <i>available on request</i>
	<b>Bruce Groves</b> Associate Professor University of Toledo Toledo, Ohio phone: <i>available on request</i> e-mail: <i>available on request</i>	<b>Jeff Witt</b> Assistant Director University of Toledo Toledo, Ohio phone: <i>available on request</i> e-mail: <i>available on request</i>