

# Zachary C. Nielsen

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**OBJECTIVE** To secure a professional position in the field of Mechanical Engineering in order to gain valuable experience and strive for excellence within the company.

**EDUCATION** *Master of Science*, Mechanical Engineering  
University of Toledo, Toledo, Ohio, expected August 2010  
Concentration: Solid Mechanics and Dynamics

*Bachelor of Science*, Mechanical Engineering  
University of Toledo, Toledo, Ohio, December 2008

**COMPUTER SKILLS** *Software:* Microsoft Office, L<sup>A</sup>T<sub>E</sub>X, Matlab r2009a, MathCAD 14, Unigraphics NX5, AutoCAD 2006, Adobe Photoshop CS4.  
*Operating Systems:* Microsoft Windows 2000/XP/Vista/7, Debian Linux.

**EXPERIENCE** *Research Assistant* January 2009 - present  
University of Toledo, Toledo, Ohio

- 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.

*Course Instructor* January 2009 - December 2009  
University of Toledo Student Recreation Center, Toledo, Ohio

- 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.

*Mechanical Engineering Co-op* August 2006 - May 2008  
MTD Products, Valley City, Ohio

- 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.

**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** Available upon request.