

# GARRETT ROBERT HERNING

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## BACKGROUND SUMMARY:

A mature, motivated engineer with a good understanding of mechanical and electrical systems, and how they interact in modern design. Has a keen familiarity with many current automotive technologies and trends. Excellent team player that is detail oriented, flexible and has exceptional written and verbal communication skills. Working towards a career in the automotive aftermarket, particularly in performance, custom and alternative automotive designs. Enjoys travel and working with customers.

## PROFESSIONAL EXPERIENCE:

2008-Present

### Power Test, Inc.; Sussex WI

Project Engineer

- ❑ Design test equipment for on and off highway truck and bus drivetrain components.
- ❑ Customer field service, training and commissioning of test systems.
- ❑ Application engineering support for high end test systems.

2002-2008

### Zoom Technology, Inc.; Mount Holly, NJ

Project Engineer

- ❑ Designed and field-tested a new microprocessor based service product.
- ❑ Oversaw and managed the professional services of an embedded design consulting company. These services included the electronic design, firmware development and application software for an update to Zoom Technology's TranX 2000. Additionally responsible for review of all documentation and deliverables on the project as well as making the update ready for release to customer base.
- ❑ Designed various hydraulic test fixtures for late model automatic transmission valve bodies. The test fixtures allow complete testing of the valve body on Zoom Technology's VBT 4000 hydraulic test machine.
- ❑ Designed mechanical, hydraulic and electronic hardware, data acquisition and processing software for high volume, end of line test equipment in use at a number of automotive component remanufacturing facilities.
- ❑ Design of computer software used for testing and control of automatic transmission components for several different standard test systems.
- ❑ Creation of technical manuals, documentation and end user manuals.
- ❑ Design, layout and generate artwork for a variety of circuit boards.
- ❑ Field installation of equipment and systems along with customer training.
- ❑ Customer technical support.
- ❑ Worked with Sales Department to demonstrate test equipment and field technical questions during trade shows.

### AutoTronix, LLC; Berlin, NJ

2005-2008

Partner in Consulting Company

- ❑ Manage consulting jobs and company operations.
- ❑ Designed and fabricated a custom engine dynamometer. Dynamometer was used to test claims of US patent 6237579 for a customer using a number of unique test methods.  
(See <http://www.herningg.com/singh/>)

### S&S Cycle; Viola WI

1998-2000

Cooperative Education (Engineer Training)

- ❑ Design, assembly and testing of sensor assemblies and wire harnesses for an in house developed electronic ignition system.
- ❑ Investigated and 3D modeled alternative V-twin engine designs.

## EDUCATION:

- University of Wisconsin Platteville – Platteville, WI** **December 2001**  
**Bachelor of Science – Mechanical Engineering**  
 Emphasis in internal combustion engine design and computer aided design  
**Bachelor of Science – Electrical Engineering**  
 Emphasis in computer architecture, digital design and microprocessor systems interface
- National Instruments Technical Training** **September 2002**  
 LabView Basics I & II Training Courses
- Microchip Technical Training** **July 2005**  
 Microchip Masters 2005 Training Course
- Society of Automotive Engineers Professional Development Program** **April 2006**  
 Fundamentals of Modern Vehicle Transmissions Technical Course (1.80 CEU)

## TECHNICAL EXPERTISE:

- Familiar with Microchip MPLAB IDE, Microchip development tools and assembly programming
- Proficient with National Instruments LabVIEW 6 through 2013
- Proficient with AutoCAD 2006
- Proficient with Protel 99SE and PCB artwork generation
- Familiar with Inventor 4/7
- Familiar with fabrication operations and equipment (mills, saws, lathes and welding) and competent in operation of said machinery.
- Familiar with electrical operations (soldering, cable crimping, PC board assembly and repair) and competent in performing said tasks.

## PROFESSIONAL AFFILIATIONS / LEADERSHIP EXPERIENCE:

- American Society of Mechanical Engineers (ASME)** **2000-2010**  
 ASME ECLIPSE (Early Career Leadership Intern Program to Serve Engineering) Intern (2008-09)  
 Co-founder & Co-chair of Philadelphia Young Engineers (2005-08)
- Society of Automotive Engineers (SAE)** **2001-Present**  
 Milwaukee SAE Section Chairman (2013-Present)  
 Active member in local section
- Toastmasters International** **2005-Present**  
 President, Waukesha Toastmasters (2009-10 calendar year)  
 Vice President Education, Camden County NJ (2007-2008 calendar year)  
 Vice President of Public Relations, Camden County NJ (2006-2007 calendar year)  
 Competent Communicator Certification: 1<sup>st</sup> May 2007, 2<sup>nd</sup> May 2012
- Denmark International Study Program** **2000-2008**  
 Alumni of DIS Program

## OTHER INTERESTS:

- Big Brothers Big Sisters of Metro Milwaukee**  
 Active mentor to a little brother.
- Automotive Enthusiast**  
 Enjoys automotive restoration and performance modification.
- Personal WebPages**  
 [www.herningg.com](http://www.herningg.com)
- Amateur Guitar Player**