

# 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 very detail oriented, flexible and has exceptional written and verbal communication skills. Enjoys traveling and working with customers.

## PROFESSIONAL EXPERIENCE:

### **Power Test, Inc.; Sussex, WI**

**2008-Present**

#### Project Engineer

- ❑ Design test equipment for on and off highway truck and bus transmissions.
- ❑ Customer field service, training and commissioning of test systems.

### **Zoom Technology, Inc.; West Berlin, NJ**

**2002-2008**

#### Project Engineer

- ❑ Currently finishing the design and field-testing of a new microprocessor based product.
- ❑ Oversaw and managed the professional services of a consulting company on the overall electronic design, completion and application software for a major update to Zoom Technology's TranX 2000. This update was a replacement processor board with increased speed, functionality and memory. 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 various 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 as well as data acquisition and processing software for high volume, end of line test equipment in use at a number of automotive remanufacturing facilities.
- ❑ Design of software used in testing and control of automatic transmission components for several different standard test systems sold by Zoom Technology.
- ❑ Creation of several technical manuals, documentation and user manuals for a variety of products.
- ❑ Design, layout and generating artwork for a variety of circuit boards.
- ❑ Field installation of equipment and systems along with customer training.
- ❑ Customer technical support.
- ❑ Work with Sales Department during Trade shows and training seminars to demonstrate equipment and answer customers' technical questions.

### **AutoTronixs, 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 and Microchip development tools
- Proficient with National Instruments LabVIEW 6/7
- Proficient with AutoCAD 2006
- Proficient with Protel 99SE
- 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)** **2000-2009**  
 ECLIPSE (Early Career Leadership Intern Program to Serve Engineering) Intern **2008-2009**  
 Co-founder & Co-chair of Philadelphia Young Engineers (2005-08)  
 Active member in local section
- Society of Automotive Engineers (SAE)** **2001-2009**  
 Active member in local section
- Toastmasters International** **2005-2009**  
 President, Waukesha Toastmasters Club (2009-2010 calendar year)  
 Vice President Education, Camden County NJ (2007-2008 calendar year)  
 Vice President of Public Relations, Camden County NJ (2006-2007 calendar year)  
 Completion of CC (Competent Communicator) certification May 2007
- Denmark International Study Program** **2000-2009**  
 Alumni of DIS Program

## **OTHER INTERESTS:**

- Automotive Enthusiast**  
 Enjoys automotive restoration and performance modification.
- Personal WebPages**  
 [www.herningg.com](http://www.herningg.com)
- Amateur Guitar Player**