

**ENGINEER: MECHANICAL**

**RICHARD L. ELLSWORTH, P.E.**

Engineering Design & Testing Corp.

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**EDUCATION:**

1993

Bachelor of Engineering, Mechanical Engineering

University of Missouri-Columbia

**EXPERIENCE:**

October 2006  
to Present

**Consulting Engineer - Engineering Design & Testing Corp.  
Overland Park, Kansas**

Analysis of mechanical equipment design, equipment specification and material selection; investigation and analysis of mechanical fractures/failures of materials and components; assessment of fire damage related to mechanical equipment; assessment of fire protection system; assessment of vehicle damage related to hail; mechanical evaluation of vehicle systems; preparation of repair/replace cost estimates.

March 2005  
to October 2006

**Project Engineer - ThyssenKrupp Access  
Grandview, Missouri**

Design and testing of vertical platform lifts for the commercial and residential fields. Research and Development of lift designs, code evaluation, cost reduction, project tracking, document archiving, and finite element analysis (FEA) of components.

May 2001 to  
February 2005

**Project Engineer - Huhtamaki-America International  
De Soto, Kansas**

Design, testing and installation of automated food packaging equipment for commercial plants worldwide; including automated equipment design and testing, project tracking, document archiving, finite element analysis (FEA), and drawing approval.

August 1997  
to May 2001

**Project Engineer - Snorkel International  
Elwood, Kansas**

Design and testing of electrical/hydraulic aerial work platforms for the construction environment. Design and testing of scissor lifts, stick booms and articulated booms. Also involved in project tracking, cost reduction, electrical/hydraulic component selection, design approval, document archiving, and overseeing design personnel.

January 1997  
to August 1997

**Design Engineer - Engine Master  
Kansas City, Missouri / Dallas, Texas**

Installation, setup, running and tooling design of a MASCO 8-axis machining center. Troubleshooting of hydraulic, cooling, electrical, and PLC systems.

July 1995  
to December 1996

**Design Engineer - Interconnect Devices Inc.  
Kansas City, Kansas**

Design and management of production prototypes, “first run,” and detailed assemblies with labor estimations.

September 1994  
to July 1995

**Design Engineer - Acoustics Development Corp.  
St. Joseph, Missouri**

Design and manufacturing of KIOSK and ATM enclosures.

**CONTINUING EDUCATION:**

ANSYS Training

DRD Technology Corp., June 21-23, 2005, Tulsa, Oklahoma

ADAAG, ASME-A17.1 and ASME-A18.1

ThyssenKrupp Access, August 23, 2005, Grandview, Missouri

Storm Water Pollution Prevention

ThyssenKrupp Access, October 21, 2005, Grandview, Missouri

OSHA Health and Safety Training

ThyssenKrupp Access, November 16, 2005, Grandview, Missouri

OSHA Lock Out/Tag Out

ThyssenKrupp Access, August 28, 2006, Grandview, Missouri

Bendix Air Brake Training  
City of Irving Fleet Maintenance, March 13-15, 2007, Irving, Texas

Metallurgy for the Non-Metallurgist  
ASM International – Self Study Course, May 1, 2007, Lenexa, Kansas

Principles of Failure Analysis  
ASM International – Self Study Course, May 3, 2007, Lenexa, Kansas

Fire Sprinkler Inspection Training & Certificates Program  
Oklahoma State University, January 17-19, 2008, Stillwater, Oklahoma

International Symposium on Fire Investigation Science and Technology  
University of Cincinnati, May 19-21, 2008, Cincinnati, Ohio

National Fire, Arson & Explosion Investigation Training Program  
National Association of Fire Investigators, March 9-12, 2009, Denver, Colorado

**PROFESSIONAL ORGANIZATIONS:**

National Council of Examiners for Engineering and Surveying (NCEES)  
American Society of Mechanical Engineers (ASME)  
American Society for Metals (ASM International)  
Society of Automotive Engineers International (SAE International)  
National Association of Fire Investigators (NAFI)

**PROFESSIONAL LICENSES AND REGISTRATIONS:**

National Council of Examiners for Engineering and Surveying (#30440)  
National Association of Fire Investigators (#14584-7458)  
Registered Professional Engineer in Missouri (#E-2002016650)  
Registered Professional Engineer in Kansas (#19239)  
Registered Professional Engineer in Nebraska (#E-12172)  
Registered Professional Engineer in Oklahoma (#22722)  
Registered Professional Engineer in Iowa (#18749)  
Registered Professional Engineer in Indiana (#1110096)  
Registered Professional Engineer in Arkansas (#13596)  
Registered Professional Engineer in Michigan (#6201055962)  
Registered Professional Engineer in Illinois (#62.062005)  
Registered Professional Engineer in Minnesota (#6201055962)  
Registered Professional Engineer in Colorado (#44764)

Commercial Driver's License (CDL-A) – State of Kansas