

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.

PROFESSIONAL LICENSES AND REGISTRATIONS:

National Council of Examiners for Engineering and Surveying (#30440)
National Association of Fire Investigators (#14584-7458)
Commercial Driver’s License (CDL-A) – State of Kansas
Unmanned Aircraft System (UAS) - Remote Pilot Certification (#4007678)

Registered Professional Engineer (P.E.) in the following states:

Arkansas 13596
California 37859
Colorado 44764
Illinois 62.062005
Indiana 1110096

Iowa 18749
Kansas 19239
Louisiana 36915
Michigan 6201055962
Minnesota 6201055962

Missouri E-2002016650
Nebraska E-12172
Ohio PE 78348
Oklahoma 22722
South Dakota 12102

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)
National Society of Professional Engineers (NSPE)
National Fire Protection Association (NFPA)

CONTINUING EDUCATION:

ISFI Symposium
National Association of Fire Investigators, September 12-14, 2016, Scottsdale, AZ

Ground Source Heat Pump Inspector Training
International Ground Source Heat Pump Association, October 5-6, 2015, Kansas City, MO

International Symposium on Fire Investigation Science and Technology
University of Cincinnati, October 15-17, 2012, College Park, MD

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

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

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

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

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

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

OSHA Lock Out/Tag Out
ThyssenKrupp Access, August 28, 2006, Grandview, MO

OSHA Health and Safety Training
ThyssenKrupp Access, November 16, 2005, Grandview, MO

Storm Water Pollution Prevention
ThyssenKrupp Access, October 21, 2005, Grandview, MO

ADAAG, ASME-A17.1 and ASME-A18.1
ThyssenKrupp Access, August 23, 2005, Grandview, MO

ANSYS Training
DRD Technology Corp., June 21-23, 2005, Tulsa, MO