

William Mers Kelly, P.E. | Senior Forensic Engineer

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Professional Summary:

Mr. Mers Kelly has very diverse work experience successful providing managing and engineering leadership in the areas of design, development, testing, product commercialization, field service support, reverse engineering, and government contracts. He has been responsible for developing and leading multimillion dollar product development, commercialization, manufacturing and support projects. He has conducted forensic investigations of fires, explosions, accidents, injuries, water losses, product failures, in industry and residential. His experience includes medical devices, vehicles, agricultural systems and equipment, analog and digital controls, structural power systems and wiring, aircraft modifications and test bed equipment, environmental systems including HVAC and plumbing, flammable gas systems, fire suppression systems, accident reconstruction, and extensive management including program/project management.

- Electrical, Mechanical, & Software investigations
- Fire and or explosion investigations
- Commercial product failures & accident investigations
- Agriculture systems & equipment fires, failures, & accident investigations
- Vehicle fires, failures, & accident investigations
- Personal Injury & accident investigations
- Plumbing failures & water damage investigations
- Environmental systems/HVAC investigations
- Gas & Solid fuel appliance fire & soot investigations
- Fire suppression system failure investigations

Licenses and Certifications:

Professional Engineer, Ohio, License # 55590
Professional Engineer, Kentucky, License # 26565
Professional Engineer, Indiana, License # 10708913
Professional Engineer, Illinois, License # 062.062988
Professional Engineer, Tennessee, License # 261173
Professional Engineer, NCEES Council Record, License # 36925

Project Experience:

Mr. Mers Kelly has successfully completed over 1000 forensic engineering investigation projects in all areas listed above since 2007.

Mr. Mers Kelly has over 28 years of successful multi-million dollar projects in FDA compliant Medical Device concept development, project engineering, program management, commercialization, testing, and support. Projects included Boston Scientific Hemostatic Clipping

Device, Spy Scope, first disposable 10cc Control Syringe, Angioplasty Inflation Devices and Systems, Female Incontinence, Invitro Fertilization, Laparoscopic Surgical Support Devices, Wound Management, and others.

Mr. Mers Kelly has over 6 years of successful projects in UL and NSF compliant commercial products including specialized slush and ice-cream commercial freezer and dispenser concept development, project engineering, program management, commercialization, testing, and support.

Mr. Mers Kelly has over 8 years of successful projects in government component reverse engineering, test bed aircraft modifications, aircraft component concept development, design, manufacturing, testing, and support. Projects included 9g Aft Facing Seats for C5B Troop compartment, Joint Tactical Information Distribution System (JTIDS), Defense Electronics Supply Center (DESC) repair components, stamp dispensing machines, artic canteen carrier, and others.

Mr. Mers Kelly has over 1 year of successful projects in automotive handicap modifications, including lifts and controls.

Mr. Mers Kelly has over 47 years of troubleshooting and repair and installation of wiring, plumbing, HVAC, refrigeration equipment, small appliances, small engines, equipment, and automobiles and light trucks.

Mr. Mers Kelly has over 6 years of real-estate rehab and maintenance experience.

Professional Experience:

EFI Global /Unified Investigations & Sciences, Inc., Senior Forensic Engineer - 2007 to Present
MedVenture Technology Corporation, One of the Founders, Senior Program Manager 1989 - 2007
Slush Puppie Corporation Chief Engineer 1991 - 1993
Freund Precision/Freund Medical, Commercial Business Manager 1986 - 1991
Technology Incorporated, Project Engineer 1985 - 1986
Engnetics, Design Engineer 1983 - 1985

Specialized Education (Last 10 Years):

Indiana State Board Statute and Administrative Rules for Professional Engineers, June, 29 2018
Indiana Ethics for Professional Engineers, June, 29 2018
Ethics Choices We Face as Engineers, June, 29 2018
Class III Asbestos Operations & Maintenance Refresher Training, April 23, 2018
Understanding Fire Through the Candle Experiments, November 30, 2017
Fire Chemistry, November 30, 2017
Basic Electricity, November 30, 2017
Critical Thinking, November 30, 2017
Explosion Dynamics, November 28, 2017
Forensic Engineering, July 31, 2017
Moisture Barrier Systems, July 31, 2017
Pile Installation, July 31, 2017
Fuel Cells – Green Power, January 31, 2016
CPE Solutions, LLC, Finishing of Wood, July 31, 2016
CPE Solutions, LLC, Forensic Engineering Science, July 31, 2016

CPE Solutions, LLC, House Wrap, July 31, 2016
CPE Solutions, LLC, Pile Installation, July 31, 2016
CPE Solutions, LLC, Moisture Barrier Systems, July 31, 2016
CPE Solutions, LLC, Indiana State Board Statute & Administrative Rules for Professional Engineers, July 31, 2016
CPE Solutions, LLC, Indiana Ethics Course for Professional Engineers, July 31, 2016
Basic Fire Dynamics, Fire Pattern, Recognition, Ignitable Liquid Patterns, and First Responders Role When Encountering Incendiary Fires, September 4, 2014
Unified Investigations and Sciences, Inc., OSHA 29 CFR 1910.1200-Globally Harmonized System of Classification and Labeling of Chemicals, February 2014
ProLift Operator Safety Training Program, Sit Down Fork Lift Training, February 6, 2014
Class III Asbestos Operations and Maintenance Refresher Training, February 27, 2014
International Association of Arson Investigators, Inc. (IAAI) The Practical Application of the Relationship Between NFPA 1033 & NFPA 921, 8/15/2012
International Association of Arson Investigators, Inc. (IAAI) Digital Photography and the Fire Investigator, 8/15/2012
International Association of Arson Investigators, Inc. (IAAI) The Scientific Method for Fire & Explosion Investigation, 8/15/2012
Ethics for Professional Engineers, August 13, 2012
Law and Rules for Professional Engineers of Indiana, August 13, 2012
Environmental Health Management, Asbestos 16 Hours O&M Training Course, Crestwood KY, February 2012
International Association of Arson Investigators, Inc. (IAAI) Arc Mapping Basics, 11/27/2011
International Association of Arson Investigators, Inc. (IAAI) Fire Investigator Scene Safety, 11/27/2011
Fire Findings, Investigating Solid Fuel-Burning Appliance Fires 2009
Mike Holt, 101 Essential NEC Rules & Key 2008 NEC Rules, September 9, 2009
Fire Findings, Investigation of Residential Dryer Fires, Benton Harbor, MI, May 2008

Education:

Bachelor of Science, Mechanical Engineering, University of Cincinnati, Cincinnati, Ohio 1982

Affiliations:

Order of the Engineer 1970, September 14, 1991

Publications and Presentations:

Mers Kelly, William "Arc Mapping for Fire Origin" Local Unified Colleagues
Longseth, Robert & Mers Kelly, William "Ventilation Fan Fires" Unified Webinar
Reynolds, Michael & Mers Kelly, William "Additional Opportunities" Unified Leadership Summit

Honors and Awards:

Awarded 28 US Patents to date, others pending:

4,760,846	Radial Artery Clamp
5,084,060	Apparatus for Enlarging a Vessel or Clearing Obstructive Tissue from a Vessel according to Vessel Compliance
5,352,211	External Stability Device
5,540,237	Body Tissue Suspension Device
5,681,742	Biological Specimen Containment & Incubation Device
5,769,871	Embolectomy Catheter
5,827,174	Biological Specimen Containment & Incubation Device
5,860,993	Suture Cutter
5,919,199	Suture Device
5,928,935	Biological Specimen Containment & Incubation Device
6,033,358	Biological Specimen Containment Arrangement
6,036,717	Embolectomy Catheter
6,042,583	Bone anchor-insertion tool & surgical method employing same
6,283,979	Suturing device with tensioning adjustment member
6,695,877	Bifurcated Stents
7,452,327	Through the Scope Tension Member Release Clip
7,494,461	Through the Scope Tension Member Release Clip
7,758,634	Bifurcated stent and delivery system
7,799,064	Bifurcated stent and delivery system
8,123,762	Suturing Instrument
8,162,959	Single Stage Hemostasis Clipping Device
8,398,660	Suturing Instrument
8,632,579	Bifurcated Stent and Delivery System
8,663,247	Hemostatic Clipping Devices and Methods
8,974,371	Through the Scope Tensioning Member Release Clip
9,445,821	Through the Scope Tensioning Member Release Clip
9,980,725	Through the Scope Tensioning Member Release Clip
D306,069	Medical Syringe

Awarded:

Unified Pinnacle 2010-2011 Engineering
Unified Pinnacle 2011-2012 Engineering
Unified Pinnacle 2012-2013 Engineering
Unified Pinnacle 2013-2014 Engineering
Unified Pinnacle 2015-2016 Engineering
Unified Summit Award Fall 2013 Engineering



Unified Summit Award Spring 2014 Engineering
Sedgwick VIP Award 2014
Top Ten Award 2017 Engineering

**Litigation CV available upon request.