

# MARK A. M. EZRA, PE

## EDUCATION

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1972 to 1973    Victoria University of Manchester    Manchester, England  
*Diploma in Technology: Theory and Practice of Automatic Control*

1969 to 1972    Victoria University of Manchester    Manchester, England  
*Bachelor of Science in Mechanical Engineering*

1968 to 1969    William Penn Charter School    Philadelphia, Pennsylvania  
*United States High School Diploma*

1965 to 1968    Carmel College    Wallingford, England  
*Nine O-Level Certificates*

## PROFESSIONAL EXPERIENCE

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March 2006 to Present    MK & Associates, LLC  
*Senior Mechanical Engineer/ Co-owner*

Performs forensic engineering analysis in the area of mechanical systems. Work includes analysis of defects in design/manufacturing of machines, nailguns and required guarding, mechanical products, negligence cases and accident reconstruction as applied to automobiles, motorcycles, over-the-road trucks and industrial safety.

Failure analysis projects have been undertaken on large industrial gearboxes, industrial machines utilizing chain drives, piston aircraft engines, and large air handling turbines in commercial buildings, farm equipment including augers, bail accumulators and spreaders, motorcycle accidents with emphasis on braking, accident reconstruction, and motorcycle stability.

Failure analysis projects have also been undertaken into the cause/origin of failures of large industrial gearboxes and speed reducers, and in water pipe fittings and valves installed in domestic and commercial buildings. Additional work has involved vibrational aspects of failure in large HVAC units, patent infringement cases, and explosion analysis.

Trial testimony has been accepted in both state and federal venues.

May 1996 to June 2006    Nouveau Depart  
*Consulting Mechanical Engineer*

Worked through Senne, Kelsey & Associates, Product and Highway Safety



Investigation and development of light weight variable speed transmissions for small vehicular and light industrial applications. Provision of technical evaluation and recommendations concerning new mechanical projects presented for review to the Utah Innovations Center.

January 1975 to July 1979 Yamaha Motor NV in Holland  
*European After Sales Service Controller, Motorcycles*

Evaluation and investigation of technical failures in the marketplace reported by twelve European importers. Technical liaison with the factory in Japan. Implementation of modification programs in co-operation with the European importers. Member of new product (motorcycle) European testing/acceptance team. Supervision of translation of the workshop and owner manuals from English into four European languages.

November 1973 to December 1974 Foxboro-Yoxall, LTD  
*Products and Systems Engineer*

Technical support of several pneumatic instruments in the product range. Implementation of engineering changes, resolution of production line anomalies and technical support for specific applications requested by customers. Specification of valves and instrumentation used in compressor surge control for large gas pipe lines. Organization of documentation for completed customer systems.

#### PUBLICATIONS AND SEMINARS

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“Forensic Engineering Analysis of Trailer Sway Accidents”  
*National Academy of Forensic Engineers, Volume Xcv, Number 1; June 2008 Issue*  
Authored By Mark A. M. Ezra, PE and Daniel J. Landiss

“Forensic Engineering Investigation Of Motorcycle Instability Induced Crashes”  
*National Academy Of Forensic Engineers, Volume Xxi, Number 1; June 2004 Issue*  
Authored By Mark A. M. Ezra, PE

“Motorcycle Design Defects--Identifying Common And Unnecessary Hazards”  
*Trial Magazine, November 1982 Issue*  
Authored By A. Ezra, M. Ezra And P. Gaus

“A Method Of Limiting Pressure Build-Up In Motorcycle Gasoline Tanks Due To Tank Deformation In An Accident”  
*ASME 82-Wa/De-5, Published 1982*  
Authored By A. Ezra And M. Ezra

“Aspects Of Motorcycle Braking And Handling For The Defense Of Drivers Involved In Car/Motorcycle Collisions.”  
*Missouri Organization Of Defense Lawyers, Fall Newsletter, 2005*  
<[Http://Modllaw.Com/Bridge.Asp?Pagenumber=47559](http://Modllaw.Com/Bridge.Asp?Pagenumber=47559)>  
Authored By Mark A. M. Ezra, PE

“Advanced Accident Re-Construction for Forensic Engineers Series Seminar”  
*July 17-19, 2009, St. Louis, MO*

## CERTIFICATIONS

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Missouri P.E. License, No. E 2002003156

Board Certified Diplomate in Forensic Engineering By NAFE/ Council Of Engineering And Scientific Specialty Boards

Chartered Engineer (CEng), Register No. 508104

European Engineer (Eur Ing), Register No. UK/23739

Certified Safety Engineer By Missouri Division of Labor Standards

- Continuing Education Subjects
  - NEC 2008: Wiring and Protection
  - SAE: 3-day seminar, Advanced Accident Reconstruction
  - OSHA: OSHA Regulations and Workplace Accidents
  - OSHA: General Industry Regulation
  - OSHA: Mechanical Engineering, Analysis of Lawnmower Guarding.
  - OSHA: Mechanical Engineering, Analysis of Nail Gun Kickback and the Effects of Trigger Design.
  - OSHA: Motorcycle Handling and Control.
  - California Superbike School 2008- 2011: High Performance Motorcycle Riding Techniques.

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National Society of Professional Engineers

Member, Society Of Automotive Engineers

Missouri Society of Professional Engineers

Member, American Society Of Mechanical Engineers

Member, Institution Of Mechanical Engineers (UK)

National Academy Of Forensic Engineers

- *Fellow*

Chartered Engineer , (United Kingdom)

Private Pilot Certificate

- *Single Engine Land; IFR Qualification; Complex Aircraft Sign Off And Tail Wheel Sign Off.*

Motorcycle License

- *750cc+ Qualification; More Than 250,000 Miles Of Experience.*

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## LANGUAGES

English: mother tongue

French: Speak, write, read at excellent level

Dutch: Speak, write and read fairly well; comprehension good

#### INTERESTS AND ACTIVITIES

Classic car and motorcycle restoration and high performance modifications

Amateur built aircraft and radio controlled aircraft and aerobatic piloting

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