MANNING BUSKE FORENSICS

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CURRICULUM VITAE OF SCOTT BUSKE M.Sc., P.E., P.I., CFI

Licensed in California, Nevada, and Alaska
Certified Accident Investigator ACTAR 2088

AREAS OF CONSULTATION:

FORENSIC ENGINEERING

The investigation of equipment and machine failures including machine guarding. Electrical control systems analysis including electrical schematic review to determine failure mode. Heat generation calculations to determine potential for high resistance shorting, and material failure analysis. All findings are compared to published codes, safety regulations, and signage requirements. Animations can be created using 3D analysis software that will show the failure process and loading (Finite Element Analysis). Trouble code and air bag control modules, suspension, brake, and electrical systems. Mr. Buske has taken part in conducting 49 automotive, truck, motorcycle and pedestrian v. vehicle crashes that were used to create speed equations and trajectories. EDR- Data Analyst, Tire Failure Analyst, and labor code 4558.

Certified fire and explosion expert. Investigations into the causation of fires involving electrical and mechanical malfunctions. This includes electrical wiring and arc mapping. Fires involving heavy industrial machinery and manufacturing facilities as well as truck and automotive fires are examined. Engine Control Module downloading to determine the state of the engine and electronics prior to the fire. Has created numerous fire simulations (animations) using Fire Dynamic Simulation software. IAAI-CFI & NAFI-CFEI

PROFESSIONAL EXPERIENCE

9/10 to Pres. Manning Buske Forensics, Tracy, CA
Investigating product and vehicle failures, fires, and guarding issues.

9/07 to 8/10 Berkeley Research Company, Berkeley, CA
Investigating industrial, fire, and vehicle investigations

9/96 to 10/08 Buske Engineering & Analysis, Tracy, CA
Design and manufacture of machine safety enclosures automated machines. Shipping machine enclosures in the US and Europe meeting OSHA and CE requirements.

9/02 to 9/07 Power Automation Systems, Lathrop, CA
Designed safety systems and controls for automated equipment. Design of automatic sprinkler systems including ESFR, freezer applications, and alarm systems.

8/01 to 9/02 Power Generation & Engineering Inc., Oakdale, CA
Designed power generation systems and controls. Worked directly with UL to list new products. Designed electrical control panels to the National Electric Code.

8/00 to 8/01 EPP General Manger, responsible for all operations. Manufacturing plastic parts for the automotive and electronic industry.

8/95 to 8/00 Trine Labeling Systems, Turlock, CA
Designed machine enclosures to meet OSHA and CE requirements. Designed improved guarding, clutches, and electrical systems for improved safety.

4/94 to 8/95 Pulver Genau, Tracy, CA
Designed automated equipment including custom proofers, groupers, stackers, and loaders. Designed electrical panels for control of the various systems.

1/92 to 4/94 B&H Manufacturing, Ceres, CA
Designed high speed automated equipment for the beverage industry.

College Internships

5/91 to 1/92 Sunsweet Dryers, Yuba City, CA
5/89 to 8/89 Systron Donner, Concord, CA

Awards, Published Papers, and Patents

2008 Spring Guest Lecturer at the National Association of Subrogation Professionals
2005 Lecturer at the American Society of Mechanical Engineers 100th Anniversary Conference
2005 Lecturer at the Society of Forensic Engineers and Scientists

Published Papers & Patents

Computer Integrated Design and Manufacture of a Labeling Machine, ASME –IMECE05
Fire resistant base tank for direct generator mounting Patent Number 7,246,717 B2
Automated Warehouse Row Cart and Lift (Automatically Guided Vehicle) Patent No.7,073,634

Education

B.S. Mechanical Engineering, California State University; Sacramento, Fall 1992
M.S. M.E. - Concentration in Electrical Controls, Cal. State Univ.; Sacramento, Spring 2005
Univ. of Alaska, Anchorage -Arctic Engineering (frost heave, ice formation, ice hydraulics) 2008
Fire Dynamics Simulator, Seneca College, instructor David McGill, 2015
Classes taken include circuit analysis, motors, PLC programming, mechatronics, control systems, HVAC, fatigue and failure analysis, materials, machine design, manufacturing and product development, heat transfer, thermodynamics, and combustion.

Professional Affiliations

Member, California Association of Accident Reconstruction Specialists (CA2RS)
Society of Automotive Engineers (SAE)
Southwestern Association of Technical Accident Investigators (SATAI)
Member, Society of Forensic Engineers and Scientists (SFES)
Member, National Society of Professional Engineers (NSPE)
Member, Minerals, Metals, and Materials Society, (TMS)
Member, Society of Manufacturing Engineers (SME)
Member, International Association of Arson Investigators
Member, California Conference of Arson Investigators

Fees and Terms

$300 per hour plus expenses at cost for all categories of work including consulting, travel, and trial appearances. Deposition appearances are billed at $450 per hour. Name or resume may not be used without specific approval and payment of retainer. A $3000 retainer is required prior to commencement of work.