

## **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:

#### **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. 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).

Vehicle accidents including pre-accident analysis and accident scene analysis using ARAS360. 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.

#### **FIRE ENGINEERING**

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 industrial, fire, and vehicle investigations
- 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, Oakdale, 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 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 such as 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 mounting a generator 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. Electrical Controls, California State University; 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

### **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**

\$350 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.