

S. Melville McCarthy

Registered Professional Engineer

417 Audubon Drive, Tallahassee, Florida 32312-1633

Telephone (850) 893-5845

Fax (850) 893-8018

E-mail smmcpe@machineexpert.com

Curriculum Vitae

Formal Education

Washington and Lee University, Lexington, Virginia

Bachelor of Science, 1959

Major: Physics and Pre-Engineering

University of Florida, Gainesville, Florida

Bachelor of Science Mechanical Engineering, High Honors, 1968

Major: Machine Design

University of Florida, Gainesville, Florida

Graduate Courses in Mechanical Engineering, 1969

Major: Machine Design

Professional Experience

Forensic Consultant, 1980-Present

S. Melville McCarthy, Professional Engineer, Tallahassee, Florida

General Manager, 1978-1979

Wayne H. Coloney Company, Incorporated, Tallahassee, Florida

General Manager, 1978

Coloney Company Consulting Engineers, Incorporated, Tallahassee, Florida

Director, Consulting Engineering, 1977-78

Manager, Legal Engineering Division, 1974-77

Wayne H. Coloney Company, Incorporated, Tallahassee, Florida

Liability Consulting Engineer, 1972-1974

Mechanical Engineer, 1969-1972

Tampa Bay Engineering Company, St. Petersburg, Florida

Professional Registrations

Florida Professional Engineer, 13675, 1973-present

Georgia Professional Engineer, 10101, 1975-present

Alabama Professional Engineer, 13823, 1982-present

Publications

Chapter 31, Machine Guarding (except annotations), Volume Two, pp. 31-1-99, Attorney's Guide to Engineering, Ira S. Kuperstein, Ph.D. P.E. and Neil L. Salters, Esq., Matthew Bender & Company, Inc., New York, NY, 1986

Honors

National Honorary Engineering Fraternity, Tau Beta Pi
National Honorary Mechanical Engineering Fraternity, Pi Tau Sigma

Technical Courses and Seminars

Fire Cause Analysis

Fire and Arson Investigation, 1988, Albany, Georgia
International Association of Arson Investigators
Fire Cause Analysis, 1981, 1989, Madison Wisconsin
University of Wisconsin
Gas Appliance Fires, 1980, Birmingham, Alabama
University of Alabama
Arson Detection and Investigation, 1975, Ocala, Florida
Florida State Fire College

Product Safety

Programmable Logic Controllers, 2005, Orlando, Florida
National Technology Transfer, Inc.
Machine Safeguarding, 1999, Rockford, Illinois
Rockford Systems, Incorporated
Applied System Safety, 1988, Orlando, Florida
American Society of Safety Engineers
Machine Guarding, 1985, Orlando, Florida
Robinson & McCarthy
Human Factors, 1983, Atlanta, Georgia
Anacapa Sciences, Incorporated
Product Safety Warnings, 1982, Madison, Wisconsin, 1998, Orlando, Florida
University of Wisconsin
Power Press Safety, 1981, Tampa, Florida
National Safety Council and American Society of Safety Engineers
OSHA Tools – Hand and Power, November 2004
OSHA Fatal Accidents & Prevention, November 2004
Preventing and Investigating Accidents, November 2004
Workplace Safety: How to Avoid Hazards, November 2004
OSHA Cranes, Derricks, Hoists, Elevators & Conveyors, December 2004
Safety: Machine Operation & Safe Work Practices, December 2006
Reliability Engineering Techniques for Product Development, December 2006
Troubleshooting Electrical Control Circuits, February 2007

Automotive Accident Reconstruction

Pedestrian Accidents and Human Factors, 1994, Tallahassee, Florida
University of North Florida, Institute of Police and Traffic Management (IPTM)
Pedestrian Facilities Design, 1992, 1991, Tallahassee, Florida
Florida Department of Transportation
Commercial Vehicle Accident Reconstruction, 1991, Tallahassee, Florida
University of North Florida, Institute of Police and Traffic Management (IPTM)
Brakes: Design and Safety, 1988, Orlando, Florida

Society of Automotive Engineers
Functional Requirements of Highway Safety Devices, 1987, Tallahassee, Florida
University of Florida, Florida Department of Transportation and Federal Highway
Administration
Human Factors in Highway Design and Traffic Control, 1987, Tallahassee, Florida
Federal Department of Transportation and Federal Highway Administration
Truck Brakes, 1987, Jacksonville, Florida
Seat Belts, 1987, Tallahassee, Florida
Univ. of North Florida, Institute of Police and Traffic Management (IPTM)
Special Problems in Accident Reconstruction, 1983, 1984, 1988, 1989, 1990, 1992, 1994,
1995, 1996, 1997, Jacksonville, Florida
University of North Florida, Institute of Police and Traffic Management (IPTM)

Miscellaneous

Pumps, 1990, Jacksonville, Florida, Techpro
Minimizing Accident & Liability Risk, October 2000
Florida Building Code Core Training – Building/Structural, May 2002
Interior Codes 4: Means of Egress, November 2004
Building Pathology: An Introduction, December 2006
Building Pathology: Foundations, December 2006
Site Safety Risk and Liability, February 2009
Worksite Safety 01: OSHA Safety Introduction, February 2009
Worksite Safety 03: OSHA Fall Protection, February 2009
Worksite Safety 05: OSHA Scaffolds, February 2009
Worksite Safety 06: OSHA Cranes & Other Hoists, February 2009
Worksite Safety 08: OSHA Materials Handling & Storage, February 2009

Previous Affiliations

American Society of Mechanical Engineers (ASME)
American Society of Safety Engineers (ASSE)
National Safety Council (NSC)
National Society of Professional Engineers, (NSPE)
Florida Engineering Society (FES)
Society of Automotive Engineers (SAE)
American Academy of Forensic Sciences, Incorporated (AAFS)
National Fire Protection Association (NFPA)
International Association of Arson Investigators, Incorporated, Florida Chapter (IAAI)
American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRE)

Military

United States Navy, Naval Weapons Station, Yorktown, Virginia
Ensign, 1959-1961
Lieutenant Junior Grade, 1962
Technical Officer, Surface-to-Air Guided Missile Program