

Curriculum Vitae

Ray Franco, PhD., PE

Electrical Engineer

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October 7, 2019

1. Current Positions:

- Forensic Electrical Engineer and Certified Fire & Explosion Investigator.
- Institute of Electrical and Electronic Engineers (IEEE), Mississippi Section – Webmaster.

2. Past Positions:

- U.S. Fire Administration – National Fire Academy - Instructor for the course “Electrical Aspects of Fire Investigation” 2015-2019.
- Central Vice President, Mississippi Fire Investigators Association (aka Mississippi Chapter of International Fire and Arson Investigators), 2014-2015.
- Board of Directors, Mississippi Fire Investigators Association, 2006, 2007, 2016.
- University of Southern Mississippi Electronics and Computer Engineering Technology Industrial Advisory Committee Member, 2003-2008.
- Chairman of the Mississippi Section of the Institute of Electrical and Electronics Engineers (2002-2003).
- Mississippi State University – Adjunct Professor of Electrical Engineering. Also taught lecture courses at the Auburn University, Jackson State University, and the U.S. Army Corps of Engineers Graduate Institute (1990-2000)
- U.S. Army Engineering Research and Development Center, 1975-2003.

3. Education:

a. Universities and Degrees.

Aug 82 - Dec 86	Elec. Engr. (Computer Sci.)	PhD	Miss State Univ.
Aug 81 – Jun 82	Electrical Engr.		Auburn Univ.
Jun 80 – May 81	Electrical Engr.		Miss State Univ.
Aug 77 – Aug 79	Elec. Engr. (Math)	MS	Miss State Univ.
Jul 69 – Dec 72	Electrical Engr.	BS	Miss State Univ.
Sep 68 – Jul 69	Engineering		Hinds Jr. College

b. National Electrical Code (NFPA 70)

Aug 18	(1 hr)	2017 NEC Changes: Overcurrent, Grounding & Bonding
Aug 18	(1 hr)	2017 NEC Changes: Receptacles & Switches (RV)
Aug 18	(1 hr)	2017 NEC Changes: Conductors & Wiring Methods (RV)
Aug 18	(2 hrs)	NEC Wiring Methods (Red Vector)
Sep 14	(2 hrs)	NEC 2014 Changes Chapter 2 - Wiring (Red Vector)
Feb 11	(2 hrs)	NEC 2011 Changes Articles 200-280 (Red Vector)
Feb 11	(1 hrs)	NEC 2011 Changes Articles 90-110 (Red Vector)
Feb 11	(1 hr)	Ground Fault Circuit Interrupters (Red Vector)
Feb 09	(4 hrs)	NEC Grounding (Red Vector)
May 06	(21 hrs)	National Electrical Code (NFPA)
May 06	(7 hrs)	NEC Hazardous/Classified Locations (NFPA)

c. National Electrical Safety Code Training:

Jun 09	(32 hrs)	Staking Phase II – NESC Rules (Hi-Line)
Apr 06	(2 hrs)	NESC Rules for the Installation and Maintenance of Electric Supply Stations and Equipment
Dec 05	(2 hrs)	Overhead Lines (Sections 26 & 27)
Aug 05	(2 hrs)	NESC Grades of Construction
May 04	(4 hrs)	NESC Rules for the Installation and Maintenance of Underground Electric Supply and Communication Lines

d. Electrical Safety Regulations:

Dec 11	(5 hrs)	OSHA Electrical Regulations (Red Vector)
Nov 10	(17 hrs)	Electrical Safety in the Workplace (NFPA)
May 06	(7 hrs)	Electrical Safety in the Workplace (NFPA)

e. Building Codes:

Jan 19	(6 hrs)	Fire Alarm and Signaling Code - NFPA- 72 – Online
Sep 17	(8 hrs)	International Building Codes (IBC) (LA Engr. Society)

Jun 17	(6 hrs)	Inspector Skills – International Code Council
Dec 16	(2 hrs)	International Building Codes (IBC) & More (Red Vector)
Dec 16	(2 hrs)	IBC – Electrical & Communications (Red Vector)
Dec 16	(2 hrs)	IBC – Fire and Life Safety Code (Red Vector)
Dec 16	(2 hrs)	IBC – Fire & Smoke Resistance Assemblies (Red Vector)
Dec 05	(5 hrs)	Building Codes (MCIC)

f. Hazmat:

May 16	(40 hrs)	Hazwoper with Asbestos Awareness (G4S)
Jun 15	(16 hrs)	Asbestos for Operation and Maintenance (MSU)
Apr 16	(4 hrs)	MFIA – Fire Investigator Heath & Safety Awareness

g. Fire and Arson Training:

Oct 18	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Apr 18	(8 hrs)	Residential Lightning & Fireplace Fires (LA-IAAI)
Nov 17	(8 hrs)	RV & Boat Fires (AL-IAAI - tested)
Nov 17	(4 hrs)	NFPA 921 2017 Update (AL-IAAI - tested)
Nov 17	(2 hrs)	ATF Bomb & Arson Tracking Sys. (AL-IAAI - tested)
Sep 17	(4 hrs)	Lithium-Ion Battery Fires (LA-IAAI - tested)
Sep 17	(4 hrs)	HVAC Fires (LA-IAAI – tested)
Jul 17	(40 hrs)	NFPA 1033 Arkansas State Fire Academy (taught)
Feb 17	(16 hrs)	Bomb Investigations – Public Agency Training Council
Oct 16	(8 hrs)	LA-IAAI Light Fixture Investigations (tested)
Jun 16	(8 hrs)	MFIA – Arson Immunity Act
Apr 16	(24 hrs)	MS-IAAI NFPA 1033 (tested)
Dec 15	(12 hrs)	LA-IAAI Fire & Arson Seminar
Nov 15	(23 hrs)	AL-IAAI Fire & Arson Seminar (tested)
Oct 15	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Jul 15	(8 hrs)	MFIA NFPA Std. 1033
Jul 15	(8 hrs)	LA-IAAI Fire Science & Thermodynamics
Apr 15	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Mar 15	(48 hrs)	Electrical Aspects of Fire Investigation (NFA)
Nov 14	(22 hrs)	AL-IAAI Fire & Arson Seminar (tested)
Oct 14	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Sep 14	(20 hrs)	LA-IAAI Fire & Arson Seminar (tested)
Jun 13	(24 hrs)	LA-IAAI Residential Electrical Fires (tested)
Nov 12	(8 hrs)	LA-IAAI Evaluation of Appliance Fires
July 11	(16 hrs)	Central Texas Fire Investigators
Apr 11	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Apr 10	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Mar 10	(8 hrs)	IAAI-LA: LP & Natural Gas Fire Investigations
Dec 09	(8 hrs)	Residential Fires (Texas Engr. Ext. Service)
Apr 08	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Mar 08	(8 hrs)	LA-IAAI Commercial Kitchen Fires

Aug 07	(20 hrs)	IAAI-TN Chapter Expert Witness Course (tested)
Apr 07	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Dec 06	(16 hrs)	Central Texas Fire Investigators
Oct 06	Taught	MFIA, Fire and Arson Seminar
Mar 06	(20 hrs)	IAAI, Vehicle Fires Seminar (tested)
Mar 05	(20 hrs)	MFIA, Fire and Arson Seminar
Nov 04	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Aug 04	(20 hrs)	NAFI, Fire, Arson and Explosions (tested)
Nov 03	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Jun 03	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
May 02	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Nov 01	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Apr 01	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Nov 00	Taught	MFIA, Fire and Arson Seminar (tested)
Apr 00	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Mar 99	(20 hrs)	IAAI, Electrical Appliance Fires (tested)
Oct 98	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Apr 98	(20 hrs)	MFIA Fire and Arson Seminar (tested)
Nov 96	(20 hrs)	MFIA, Fire and Arson Seminar (tested)
Oct 95	(20 hrs)	MFIA, Fire and Arson Seminar (tested)

MFIA – Mississippi Fire Investigators Association

IAAI – International Association of Arson Investigators

NAFI – National Association of Fire Investigators

h. International Association of Arson Investigators: CFI-Trainer

May 14	(4 hrs)	Arc Mapping Basics
May 14	(4 hrs)	Documenting the Event
May 14	(2 hrs)	Relationship Between NFPA 1033 & 921
April 13	(3 hrs)	Ethics and the Fire Investigator
April 13	(3 hrs)	Electrical Safety
April 13	(3 hrs)	The Scientific Method
July 06	(4 hrs)	Digital Photography

i. Short Courses and Other Training

Aug 18	(2 hrs)	Fire Alarm Essentials (Red Vector)
Aug 18	(1 hr)	Ethical Decision Making for Engineers #3 (Red Vector)
Aug 18	(1 hrs)	Digital Multimeters II – Applications (Red Vector)
Mar 18	(2 hrs)	Digital Multimeters I – Operations (Red Vector)
Dec 17	(1 hr)	Engineering Ethics #2 (Red Vector)
Feb 17	(4 hrs)	Safety – Electrical, Hazards & Grounding (Red Vector)
Dec 16	(4 hrs)	Mechanical Characteristics of Conductors (Red Vector)

Sep 16	(1 hrs)	Ethical Decision Making for Engineers (Red Vector)
Jan 15	(3 hrs)	Electric Motors (Red Vector)
May 14	(8 hrs)	Electric Machines & Flicker Contribution (IEEE)
Sep 14	(1 hr)	Engineering Ethics (Red Vector)
May 11	(6 hrs)	Engineering Professional Development (IEEE)
Aug 10	(6.5 hrs)	Engineering Professional Development (IEEE)
Jun 06	(2 hrs)	NEC top 100 Rules (Entergy)
Apr 06	(2 hrs)	NESC Electric Stations 1 (Entergy)
Mar 06	(2 hrs)	Grounding in the Primary Zone (Entergy)
Feb 06	(2.5 hrs)	Regulator Controls (Howard Ind. / Entergy)
Nov 05	(2 hrs)	Engineering Ethics (IEEE)
Nov 05	(2 hrs)	Low Voltage Controls for Power Systems (Entergy)
Sep 04	(1.5 hrs)	Electric Power Surge Protection (Entergy)
Aug 04	(2 hrs)	Electric Power Quality (Entergy)
Jun 04	(1 hr)	Power Management Control Systems (MES)
Jun 04	(1 hr)	Electric Motor Failures (MES)
Jun 04	(1 hr)	Everyday Engineering Ethics (MES)
Jun 04	(1 hr)	Security Technology Trends (MES)
Nov 03	(2 hrs)	Engineering Ethics (IEEE)
Aug 02	(2 hrs)	Engineering Ethics (IEEE)
Jun 01	(3 days)	Microsoft Access Database Programming (OPM)
Oct 99	(3 days)	Java Programming (OPM)
Aug 97	(5 days)	Leadership Education and Development (OPM)
Aug 94 - Dec 94		Real Time Systems Computing (MSU)
Dec 92	(3 days)	Microsoft Windows (OPM)
Nov 91	(5 days)	Intermediate C programming (OPM)
Oct 90	(3 days)	Data Acquisition Systems Design (ISA)
Oct 90	(2 days)	Measurement Uncertainty (ISA)
Aug 90	(5 days)	C Programming (OPM)
Jan 89 - May 89		Fiber Optics System (MSU)
Feb 88	(2 days)	Engineering Management (OPM)
Aug 87 - Dec 87		Advance Signal Processing (MSU)
Jan 87 - Jun 87		Digital Signal Processing (MSU)
Aug 87	(5 days)	Enable Software (OPM)
Feb 87	(4 days)	C programming (Masscomp)
Mar 86	(4 days)	Queuing Theory (Learning Tree)
Jun 81	(4 days)	Intel 8086 Microprocessor (Intel)
Jul 76	(5 days)	Microprocessors (LSU)
Jun 76	(5 days)	Digital Logic (LSU)
May 74	(10 days)	Economic Analysis (US Army)

4. Certifications:

- Fire Alarm ITM Specialist (NFPA-72), Certification No.: CFAITMS-FM-18-047, by the National Fire Protection Association (NFPA).
- Certified Fire and Explosion Investigator (CFEI-10031-4612), by the National Association of Fire Investigators (NAFI)
- Certified Vehicle Fire Investigator (CVFI-V10031-4612) by the National Association of Fire Investigators (NAFI)

5. Professional Registration:

- Mississippi Professional Engineering License No. 7155, 1978.
- Louisiana Professional Engineering License No. 31177, 2004.
- Arkansas Professional Engineering License No. 12673, 2006.
- Alabama Professional Engineering License No. 28163-E, 2006.
- Florida Professional Engineering License No. 65763, 2007.
- Georgia Professional Engineering License No. PE032993, 2008.
- Missouri Professional Engineering License No. 2007032424, 2007
- Certified Professional Engineer by The National Council of Examiners for Engineering and Surveying, Certificate No. 23905, 2003 – Also No. 17-898-45.

6. Professional and Technical Societies:

- National Society for Professional Engineers (NSPE) – #104049555.
- Mississippi Engineering Society (MES)
- Institute for Electrical and Electronics Engineers (IEEE) - Senior Member -#06504724.
- National Fire Protection Association (NFPA) - #930898
- National Association of Fire Investigators (NAFI) - #10031-4612.

- International Association for Arson Investigators (IAAI) - #19510
- Mississippi Fire Investigators Association (NFIA) - # 61
- Alabama Association of Arson Investigators - #19MS0423
- Louisiana Chapter of the IAAI

7. Participation in committees, panels, meetings or conferences:

- University of Southern Mississippi Electronics and Computer Engineering Technology Industrial Advisory Committee – March 2005
- IEEE Southeastcon 2003, Section Chairman.
- IEEE Section Congress 2002, Section Chairman.
- Chairman Earthquake Session Shock and Vibration Symposium 1998.
- Co-Chairman of Dynamic Measurement Session Shock and Vibration Symposium 1997.
- Co-Chairman and Recorder for Electric Power Session Fifteenth Interagency Research Coordination Conference, 1987.

8. Honorary, scientific, and engineering societies:

- Tau Beta Pi Member Miss State Univ. Mar 78
- Eta Kappa Nu Member Miss State Univ. Nov 77

9. Special recognition and/or awards:

- U.S. Army - Research Development and Acquisition Award 1991 *
- U.S. Army Science Conference - Honorable Mention Paper 1990 *
- U.S. Army Waterways Experiment Station - R&D Award 1989
- Outstanding Performance Awards 1991-1998.
- U.S. Army Picatinny Arsenal - Cash award for Exceptional Performance 1997

- U.S. Army Commendation Medal 1975.
- ❖ The U.S. Army Research Development and Acquisition Award is the highest award for technical merit awarded by the Department of the Army.
- ❖ The U.S. Army Science Conference Award was issued by the Under Secretary of the Army in charge of Research and Development.

10. Patents:

- Shock Hardened Data Acquisition System, U.S. PATENT No. 5,317,914 (38 Claims) issued on 7 Jun 1994.

11. University Teaching Assignments:

- MSU-EE8763 Finite and Infinite Machines : Jan-May 1997.
- MSU-EE6723 Microprocessors II : Aug-Dec 1991.
- MSU-EE2731 Digital Device.
- Undergraduate courses at Auburn and Jackson State University.

12.A Professional Publications:

- Franco, R.A., Phillips, G.G. 1998 “Improved Shock Hardened Data Acquisition System” Proceedings of the 68th Shock and Vibration Symposium, Baltimore MD.
- Franco, R.A., 1996 “Hardened Data Acquisition System for Harsh Environments” NASA Tech Briefs, Vol. 20 No.7.
- Oswald Robert, Director of Research & Development Chief Corps of Engineers, presented in Nov 96 by Dr. Oswald; Location and conference: Classified; Subject: The Electric Chair and the Physiological Effects of Electricity to Humans – research and draft paper prepared by Franco R.A.
- Franco, R.A., Owens J.K., 1995 “A Miniature, Shock Hardened, Transient Data Recorder”, Proceedings of the 66th Shock and Vibration Symposium, Vol.2 pp 147-156, Biloxi, MS.
- Franco R.A. 1995. “PAM Acceleration Measurements” presented to the PAM Red Team, at Picatinny Arsenal (PAM is a classified project).

- Franco, R.A., 1994 “Multi-Channel HDAS Penetration Data”, Proceeding of the Penetration Technology Coordination Group, Vicksburg, MS.
- Ingram, J.K., Franco, R.A., 1994. “MIDAC, A Miniature Integral Data Acquisition Canister for Blast Pressure Measurements Using the WES-Developed HDAS Autonomous Digital Data Acquisition System”, WES Technical Report SL-94-5, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Franco, R.A., Ingram, J.K., 1993. “A Self-Contained, Multi-Channel, Shock-Hardened Data Acquisition System”, Defense Nuclear Agency Conference on Instrumentation for Nuclear Weapons Effects Testing (INWET'93), Menlo Park, CA.
- Franco, R.A., Ingram, J.K., 1991, “A Very High Shock Recorder”, Proceedings IEEE Southeastcon, Institute of Electrical and Electronic Engineers, New York, NY.
- Franco, R.A., Ingram, J.K., 1991. “New Advances and Experiences with HDAS”, Defense Nuclear Agency Conference on Instrumentation for Nuclear Weapons Effects Testing (INWET'91), Vicksburg, MS.
- Franco, R.A., Ingram, J.K., 1991 “Recent Experience with the CEWES-Developed Hardened Data Acquisition System (HDAS),” Proceedings of the 37th International Instrumentation Symposium, Instrument Society of America, pp 511-524, Albuquerque NM.
- Franco, R.A., Ingram, J.K., 1990. “A Very High Shock, Self-Contained Data Acquisition System”, Army Science Conference, Durham, NC.
- Franco, R.A., Ingram, J.K., 1990. “A Super-Hardened, Self-Contained Digital Acquisition System”, Proceedings of the 36th International Instrumentation Symposium, Instrument Society of America, pp 649-659, Research Triangle Park, NC.
- Franco, R.A., Ingram, J.K., 1989 “HDAS, A Miniature, Self-Contained, Super-Hardened, Digital Data Acquisition System (module)”, Paper No. 78, Defense Nuclear Agency Conference on Instrumentation for Nuclear Weapons Effects Testing (INWET'89), Monterey CA.
- Franco, R.A., 1988. “A Self-Contained Shock Hardened (100Kg) Data Acquisition System, Report 1, Design and Development”, WES Technical Report TR-0-88-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Franco, R.A., 1987. “Networks of Markovian Queues”, WES Technical Report TR-0-87-2, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

12.B Publication Contributions:

- Charles Joseph McClain, AIA, “When Bad Things Happen to Good Buildings - Red Flags in Property Condition Assessments: A Reference Guide to Problematic Building Materials and Conditions in the United States” – 2017 Edition, ISBN 978-1537094779.
- “Fire Investigator: Principles and Practice to NFPA 921 and 1033, Fourth Edition”, © 2016 Jones and Bartlett Learning, LLC and the National Fire Protection Association.
- Aziz, M.J., Johnson, A.C., Introduction to Energy Technology: Depletable and Renewable, © 2014 Wiley, ISBN 978,3-527-33241-0

13. Work History and Assignments:

A. Forensics Engineer & Fire Investigator

- 1/98-Present: Forensic Engineering work for insurance companies and attorneys. I have testified in both Federal and State Court.

B. U.S. Army Engineering Research and Development Center, 3909 Halls Ferry Road, Vicksburg, MS 39180.

- 12/98 - 9/03: Responsible for technically leading the Instrumentation Systems Development Division and acts as the chiefs in his absence. Plans and directs, and executes research, conception, design, development, construction and procurement of instrumentation systems for the U.S. Army Corp of Engineers and other government agencies. In addition, I continued my Shock Hardened Data Acquisition System (HDAS) research. I did research on battery behavior when subject to shocks above 10,000 g's. As a result, the power supplies in the HDAS were redesigned to be able to withstand a loss of power for 50 milliseconds. Also, the load regulation was greatly improved. Other power management changes were made that extended the time that the HDAS could record data from 30 minutes to over 6 hours. I also designed circuits to simulate varying line voltages and load conditions, and measured the HDAS performance under these conditions. I developed Java programs to interrogate, display data, and convert HDAS data files to other formats. Recently, I worked in the area of computer network performance. I directed the measurements of parameters to establish a baseline for our wide area network, setup a test bed, and ran software to simulate the networks and yield performance parameters.
- 05/97-11/97: Acting Chief of the Instrumentation Systems Development Division responsible for 22 electronics engineers and 28 electronics technicians. My responsibilities included: planning, directing, executing research, conception, design, development, construction, procurement, operations, maintenance/repair, staffing, assigning duties to positions, assisting employees in preparing career plans, training,

performance appraisals, leave schedules, disciplinary action, facilities, equipment, and a 4 million dollar budget.

- 04/91-05/97: I managed and directed two other electronic engineers and three electronic technicians in designing, building, using, and transferring HDAS technology. During this period three new HDAS systems were designed. The first of these was a miniaturized version for one-seventh scaled penetration weapon. The second was a multi-axis four channel HDAS. The third was a HDAS system that accepted commands and returned its data over a fiber optic network. During this period over 200 HDAS units were produced in-house.
- 9/88-4/91: I designed semi-customer integrated circuits and redesigned the HDAS with surface mount components to reduce its size. I managed the production of HDAS units, developed field methodology and directed its use on explosive effects field test. I developed validation techniques for the HDAS. I managed the software design to interrogate the HDAS and produce engineering plot in the field.
- 02/87-09/88: Designed and validated the ERDC's first shock hardened data acquisition system (HDAS). The shock hardness of the HDAS, 100,000 g's, was validated by placing it inside a projectile that was fired from a 155 mm howitzer into a 1-ft thick reinforced concrete target. The recorder contained an analog section with a 100 KHz frequency response, an 11-bit analog-to-digital converter with a sampling rate of 1,000,000 samples per second, and a 131,072 x 16-bit memory.
- 2/79-2/87: I designed and implemented two microprocessor based protocol converters. One served as the interface between a Lockheed data recorder and a satellite uplink, and the other interfaced a data recorder to a computer. I designed a microprocessor based voice synthesizer for interrogation of remote water stage recorders, and I designed a system to automatically interrogate other remote data acquisition systems over the phone. I worked on various research projects including: thermal camouflage, the detection of faults in railroad bed, and the measurement of silt in rivers. During this period, the following educational leave was taken: 6/80-5/81 Mississippi State University; 9/81-9/82 Auburn University; 9/82-5/84 Mississippi State University.
- 3/76-2/79: I designed analog circuits used to amplify and buffer signal from explosive effects transducers. I fielded and recorded measurements on various explosive tests including one underground nuclear test. During this period education leave for MS degree was taken from 8/77-5/78 and from 8/78-12/78.
- 1/75-3/76: I completed the designed and debugged the design of discrete logic data acquisition system used for hydrological surveys. The project had not been completed due to the design engineer leaving the organization for a promotion.

14. Court Appearances:

Federal Court:

- United States District Court, Southern District of MS, Hattiesburg Division
Civil Action No. 2:09CV16-KS-MTP
Metropolitan Property and Casualty Insurance Company d/b/a Economy Premier Assurance Company vs. Clayco Construction Company
Testified for Plaintiff (Metropolitan Insurance)
Deposition: September 22, 2009
Court Testimony: March 24, 2010
Plaintiff's Attorney: Chris Deaton with Deaton and Deaton, P.A. (662)-844-2055
Defense's Attorney: David M. Ott with Bryan Nelson, P.A.
- United States District Court, Southern District of MS, Jackson Division
Civil Action No. 300CV171LN - Nationwide Insurance vs. Ronald Hughes Arson Fire - Testified for Plaintiff (Nationwide Insurance)
Deposition: January 18, 2001
Court Testimony: February 15, 2001
Plaintiff's Attorney: Patrick Tatum / Firm: Upshaw, Williams, Biggers, Beckham & Riddick (601)-978-1996
Defense's Attorney: Crymes M. Pittman / Firm: Pittman, Germany, Roberts & Welsh

State Court:

- Circuit Court of Franklin County, AL
State of Alabama vs. Christie Michelle Scott - Case No.: CC08-344
Capital Murder Arson
Testified for Prosecution
Court Testimony: July 18-19, 2009
District Attorney: Joey Rushing / Franklin County (256) 332-8871
Defense Attorney: Robert B Tuten / Law Office of Robert Tuten
- Circuit Court of Alcorn County, MS
Civil Action No. 97-466R-A - Nathan Craig vs. SSSS&P (dba Executive Inn)
Electrical Shock Accident - Testified for Plaintiff
Court Testimony: November 20, 2001
Plaintiff's Attorney: Dean Andrews / Firm:/ H. Dean Andrews (Sole Practitioner) (601)-636-4488
Defense's Attorney: Kent Smith / Firm: Webb, Sanders, Balducci & Smith

14. Depositions:

Federal Court:

- U.S. District Court, Eastern District of Texas, Marshall Division
John Stephenson, vs, Caterpillar & Sears MFG Co. - No.: 2-16-CV-00071-JRG-RSP
Heat Seat Burn Injury
Deposition for Defense on September 28, 2018
Defense Attorney: Preston W. McGee, Flowers Davis, PLLC
Plaintiff's: Nelson J. Roach – Nix Patterson & Roach, LLP
- U.S. District Court, Western District of LA, Lafayette Division
Century Surety Co., vs, Toshiba International Corp. - No.: 6-11-CV-1870
Sonoco Products, et al. vs Toshiba International Corp. - No.:6-11-CV-1933
Sonoco Plant Fire – Wooden Plugs
Deposition for Defense on December 6, 2013
Defense Attorney: Sheilagh DePeter, Wilson Elser Moskowitz Edelman & Dicker
Defense Attorney: David Frohn, Frohn & Thibodeaux LLC
Plaintiff's Attorney: James D. Dendinger – Cozen O'Connor
Plaintiff's Attorney: Jack P. Skaggs – Cozen O'Connor
- U.S. District Court, Southern District of MS, Hattiesburg Division
Charter Oak Fire Insurance Co., as subrogee of R&P Land Co.
vs. Beverage-Air Corp. & Tecumseh Products Co.
Cause No.: 2:12-cv-91-KS-MTP
Fire of Piggly Wiggly Store
Deposition for Plaintiff on 24 July 2013
Plaintiff's Attorney: Tom Miller / Fire: Maricle & Associates
Defense Attorney: Meade Hartfield with Baker, Donelson, Bearman P.C
Defense Attorney: Roy Smith with Daniel Coker Horton and Bell P.A.
- U.S. Southern District of Texas
Mary Taylor vs. Lasko Products
Cause No.: 4:012-cv-00680
Fire – Death of Matthew Taylor
Deposition for Plaintiff on 28 January 2013
Plaintiff's Attorney: Jeff Embry / Hossley and Embry LLP
Defense Attorneys: John Freedenberg / Firm: Goldberg Segalla LLC

- U.S. District Court For Western District of Louisiana
Civil Action No.: 6:08-CV-0551
Samco vs. Brother International Corporation
Commercial Fire – Supper Dollar Store
Deposition for Defense on February 8, 2012
Plaintiff's Attorney: Carin Brock / Butler Pappas
Defense Attorney: Andrew Meyers / Breaud & Meyers APLC (337) 266-2200
- U.S. Eastern District of Texas
Jason Richards vs. Lasko Products and JEH Stallion Station
Cause No.: 6:07cv533
Fire – Death of Race Horses
Deposition for Plaintiff on 7 July 2009
Plaintiff's Attorney: Jeff Embry / Hossley and Embry LLP (903)-526-1772
Defense Attorneys: John Freedenberg / Firm: Goldberg Segalla LLP
Tom Stollenwerch / Firm: Touchstone Bernays, LLP

State Court

- Mississippi Workers' Compensation Commission
MWCC NO.: 1504207-M-9022
Caryl Ulrich versus Pascagoula Municipal Separate School District
Electrical Accident Claim
Deposition for Defense on 16 March 2017
Plaintiff's Attorney: James W. Wetzel / Wetzel Law Firm
Defense's Attorneys: Jason Sumrall/ Firm: Copeland, Cook, Taylor & Bush
- Circuit Court of Prentiss County Mississippi
Civil Action No. CV-2014-000157JP
Ronald Stennett versus The Home Gallery, LCC, Current HVAC Supply Inc.,
And Fictitious Defendants A-M.
Deposition for Plaintiff on 24 January 2017
Plaintiff's Attorney: George Martin Via/ Firm: Via Law Firm (662) 728-3228
Defense's Attorneys: A. Rhett Wise / Firm: Priest & Wise
Timothy M. Peoples/ Daniel, Coker, Horton & Bell, PA
- Circuit Court of Butler Alabama
Civil Action No. 10-CV-2014-900016
Johnny and Teresa Alexander and Country Mutual Insurance versus
Polaris Industries, Thomasville Saw Company, Sevcon, and Greenville Equipment Center
Residential Fire Loss of Polaris Electric ATV and Home
Deposition for Plaintiff on 27 May 2015
Plaintiff's Attorney: David Allred / Firm: Allred & Allred (334) 396-9200
Defense's Attorneys: Roshan Rajkumar / Firm: Bowman & Brooke LLP
John Gleissner / Firm: Rogers & Associates
Morris Richardson / Firm: Richardson Clement P.C.

Andrew Donaldson / Firm: Ryals, Donaldson & Agricola

- 15th Judicial District Court, Parish of Lafayette, State of Louisiana
Civil Action No. 2011-7068
Audubon Insurance Company as Subrogee of Chanda Rubin
versus
Omega Fex, Inc and Gaspard A/C Plumbing Inc, and Keith Trahan Electric Inc.
Deposition for Defense (Gaspard Plumbing) on September 11, 2014.
Plaintiff's Attorney: Carin Brock / Butler Pappas (251) 338-3801
Defense's Attorneys: Michael Parker/ Firm: Allen & Gooch (337) 291-1350
- Circuit Court of Hinds County, MS
Civil Action No. 251-13-126
Ralphel Walls vs. Metro Fire Systems, Williams-Pryo, and Ambling
Fire Burn Injuries
Deposition for Plaintiff on July 21, 2014.
Plaintiff's Attorney: Rocky Wilkins / Firm: Rocky Wilkins Law Firm, PLLC.
(601) 948-6888
Defense's Attorneys: Edwin Gault/ Firm: Forman, Perry Watkins, Krutz & Tardy
(601) 960-8600
Smith Boykin/Firm: Page Kruger & Holland, P.A.
601-420-0333
- Circuit Court of Jefferson County, AL
Civil Action No. 2011-2121
Diane Prest, As Dependent Widow of David Prest, Deceased vs.
Mark Atkins Electric Inc., ERS, Inc., IDC Integration, Inc., Et Al.,
Electrocution Death
Deposition for Defense of IDC Integration on: April 22, 2014.
Plaintiff's Attorney: Roger L. Lucas / Firm: Marsh, Richard & Bryan, P.A.
(205) 879-1981
Defense's Attorneys: Bryan Scott Tyra/ Firm: Law Office of Cincinnati Insurance
(205) 745-4488
- Circuit Court of Monroe County, MS
Civil Action No. 2011-325-RM
Heath Mills vs. Madison House LLC, Town Realty LLC,
Innovated Sports Designs, LLC DBA Fortune 1
Electrical Shock Accident
Deposition for Plaintiff on: January 30, 2014.
Plaintiff's Attorney: Ray Hill / Firm: Clayton O'Donnell PLLC (662) 801-5205
Defense's Attorneys: Timothy Crawley/ Firm: Anderson Crawley & Burke, PLLC
L. Bradley Dillard / Firm: Mitchell, McNutt & Sams, PA

- Circuit Court of Mobile County, AL
 Civil Action No. 02-CV-2011-902121.00
 Nicole Gollotte et al v Ford Motor Company
 2008 F250 Ford Fire
 Deposition for Plaintiff on: April 27, 2013.
 Plaintiff's Attorneys: Lori Blangger / Firm: Williams & Associates (551)721-0827
 Mark Spears / Spears, Spears & Hamby, (251) 344 8181
 Defense's Attorney: C. Jeff Ash/ Firm: Huie, Fernambucq & Stewart, LLP.
- Circuit Court of DeKalb County, AL
 Civil Action No. CV-09-900085
 Betty Holbrooks v The DeKalb-Cherokee Counties Gas District et al.
 Electrical Natural Gas Explosion and Fire
 Deposition for Defense: July 7 & August 26, 2011.
 Plaintiff's Attorney: Kirk Davenport / Firm: Davenport, Lavette & Cleckler, P.C.
 Defense's Attorney: Ed Howard / Firm: Ford, Howard & Cornet P.C.
 (256) 546-5432
- 19th JDC/EBR Parish, LA; Suite No. 512779, Sec 23
 James Harrison vs. Entergy and Phillips Electric
 Electrical Shock Accident
 Deposition for Defense (Phillips Electric): April 11, 2008
 Plaintiff's Attorney: J Kenton Parson / Firm: Roedel, Parsons, Kock, Blache,
 Balhoff and Mccollister
 Defense's Attorney: Brian Butler / Firm: Maricle and Associates (225) 924-9582
- Circuit Court of Lafayette County, MS
 Case No. LOS-493
 Stella Bell vs. Graceland Care Center, Med-Lift Mobility & Hubbell Products.
 Electrical Burns from a Lift Chair
 Deposition for Defense (Graceland Care Center): October 5, 2007.
 Plaintiff's Attorney: Carter Hitt / Firm: Hughes & Hitt PA
 Defense's Attorney: Andy Lowery / Firm: Copeland, Cook, Taylor & Bush PA.
 (601) 856-7200
- Circuit Court of Amite County, MS - Civil Action No. 04-CV-139J
 Linda Murray on Behalf of Bobby Murray vs. Magnolia Electric Power Assoc.
 Wrongful Death - Electrocution
 Deposition for Plaintiff's: January 25, 2007
 Plaintiff's Attorney: Kelley M. Berry/ Firm: Shannon Law Firm/ Merry & Munn P.A.
 (601) 894-4150
 Defense's Attorney: Bradley F. Hathaway / Firm: Campbell Delong

- Circuit Court of Quitman County, MS
Civil Action No. 2003-0136
Tracy Denica Smith vs. TPI Corporation
Fire / Wrongful Death - 1 Adult / 2 Minors
Deposition for Defense: November 15, 2005
Plaintiff's Attorney: Michael D. Greer / Firm: Greer, Pipkin & Russell
Defense's Attorney: Martin R. Jelliffe (601) 968-5576 & Jack Price (601) 968-5574 /
Firm: Wise, Carter, Child & Caraway(601) 968-5500
- Circuit Court of Jackson County, MS
Civil Action No. C1-2000-00, 286(1)
Angela Cunningham Minor, et al vs. Singing River, EPA
Electrical Shock Accident
Deposition for Plaintiff: September 25, 2001
Plaintiff's Attorney: Herbert Lee / Firm: Lee & Associates (601) 355-9895
Defense's Attorney: James N. Compton / Firm: Compton, Crowell & Hewitt
- Circuit Court of Coahoma County, MS
Civil Action No. 14-C1-97-0080
Vanessa Hayes vs. Entergy Mississippi and Baker Engineer
Fire - Wrongful Death - 3 minors
Deposition for Defense of Baker Engineering: August 25, 1999
Plaintiff's Attorney: Charles M. Merkel Jr. / Firm: Merkel & Cocke
Defense's Attorney: Forrest Stringfellow / Firm: Daniel, Coker, Horton & Bell
(601) 924-0525, (601) 969-7607

15. Fee Schedule:

- Exploratory to determine if a lawsuit should be filed: \$225 / hour.
- Legal: Lawsuits & Rule 26 Reports: \$295 / hour.
- Travel Time: Under 6 hrs. - \$225/hr.; 6 to 12 hrs. - \$150/hr.; Over 12 hrs. - \$100/hr.;
Other Expenses: At Cost.
- Minimum Joint Inspection: 4 hrs. (includes travel time).
- Minimum Deposition and Court Fee: 8 hrs per day (\$295/hr) - includes preparation and travel time if on the same day and if for the client that I am working with.
- Cancellations: If notified over 3 workings days, no charge. If canceled under 3 working day, 8 hours at the hourly-rate.

- Rush Expert Reports and Court Responses: \$350 Weekdays, \$400 Saturdays, \$500 Sundays, \$500 Holidays including the Friday after Thanksgiving, Christmas Eve and New Year's Eve.

A handwritten signature in black ink that reads "Ray Franco". The script is cursive and fluid, with the first name "Ray" and last name "Franco" clearly distinguishable.

Ray Franco, Ph.D., PE
Electrical Engineer