

ANDREW J WILLIAMS, P.E.

CURRICULUM VITAE

EDUCATION

Bachelor of Science in Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Massachusetts, 1993

Post-Graduate Courses in Biology, Organic Chemistry & Macro-Economics

Post-Graduate Studies in Design Development, Experimentation, Photography, Fire & Explosion Investigation, Fire Dynamics, Premise Wiring, Appliance Failures, and Electrical Fires

EXPERIENCE

1999-present NEPONSET VALLEY ENGINEERING COMPANY, Inc., d/b/a GAI Engineers, a forensic engineering and fire investigation firm.

President & Senior Engineer

Investigate the technical aspects of property damage and personal injury matters, utilizing expertise in electrical and mechanical engineering.

Complete scene examinations, witness interviews, evidence examinations, research, document review, testing, engineering calculations, and report writing, as well as provide expert testimony, on electrical & mechanical equipment and systems.

Electrical projects include household appliances, consumer electronics, power tools, restaurant equipment, laundering equipment, computer systems, telephone systems, premise wiring, electrical service equipment, etc.

Mechanical projects include boilers, furnaces, water heaters, elevator systems, steam generators, floor cleaning equipment, landscaping equipment, meat grinders, etc.

1997-1999 ALLERGAN, Inc., Irvine, CA, a medical device manufacturer of equipment and disposables for the eye care industry.

Senior Manufacturing Engineer

Validated electro-mechanical designs, both existing and new, for reliability and robustness. Ensured final test of new equipment met all critical design specifications with high confidence (6 Sigma). Completed electronics troubleshooting, wiring harness design, sheet-metal chassis & plastic panel optimization, fastener selection, packaging development and material finishing selection.

1993-1997 HAEMONETICS, Corp., Braintree, MA, a medical device manufacturer of equipment and disposables for the blood processing industry.

Manufacturing Engineer and Supervisor

Completed Design of Experiments (DOE) and validation for disposables and equipment performance as well as thermoplastic forming processes. Assisted in capital upgrade projects, such as a 5000 square foot Class 1000 cleanroom. Procured automated process equipment as well as electrical and mechanical equipment. Responsible for department safety, including repetitive motion injuries, machine guarding and electromagnetic radiation.

TRAINING

<u>Date</u>	<u>Course Title</u>	<u>Hours</u>	<u>Sponsor(s)</u>
Jun 07	Fire and Arson Investigation Seminar On Appliance Fires	20	Massachusetts Chapter Of International Association Of Arson Investigators
April 07	Investigating Residential Dryer Fires	16	Fire Findings Laboratories
Sep 06	Commercial Kitchen Systems	6	Massachusetts Chapter Of International Association Of Arson Investigators & FIREPRO
Jun 06	Forensic Fire Investigation	16	Massachusetts Chapter Of International Association Of Arson Investigators
Sep 05	Electric Motors & Controls	14	American Trainco
Nov 04	Investigations of Electrical and Appliance Related Fires	20	International Association of Arson Investigators & Association of Home Appliance Manufacturers
Mar 04	The Reid Technique of Interviewing and Interrogation.	24	John E. Reid & Associates
Feb 04	Fire Alarms	6	Massachusetts Electrical Contractors Association
Sep 03	Heating System Fires	6	Massachusetts Chapter Of International Association Of Arson Investigators
Jun 03	Live Burns of Appliances	8	Massachusetts Chapter Of International Association Of Arson Investigators
Mar 03	Lightning Detection	4	Vaisala
Aug 02	2002 National Fire, Arson and Explosion. Investigation Training Program	24	National Association of Fire Investigators

<u>Date</u>	<u>Course Title</u>	<u>Hours</u>	<u>Sponsor(s)</u>
Nov 02	Small Appliance Fire/ Product Liability	12	Massachusetts Chapter Of International Association Of Arson Investigators
Nov 02	Grounding	4	Massachusetts Electrical Contractors Association
Nov 02	Investigation of Gas and Electric Appliance Fires Seminar Insurance Company	16	Fire Findings Laboratories
Sep 02	Explosives, Secondary Devices, Explosions and Their Investigation	6	Massachusetts Chapter International Association Of Arson Investigators
Jun 02	Testifying Skills Workshop	8	SEAK
Jan 02	Post Fire Investigation of Electrical Components	6	Massachusetts Chapter Of International Association Of Arson Investigators
Nov 01	Basic Fire Science and Fire Investigation	12	Massachusetts Chapter Of International Association Of Arson Investigators
Mar 01	Motor Vehicle Accident Reconstruction	24	Society of Automotive Engineers
Jan 01	Forensic Photography	6	Massachusetts Chapter Of International Association Of Arson Investigators
Nov 98	Basic Geometric Dimensioning and Tolerancing	16	Worcester Polytechnic Institute
Jun 98	Design for Manufacture and Assembly	16	Worcester Polytechnic Institute
Dec 96	Failure Mode and Effects Analysis Workshop	16	Worcester Polytechnic Institute
Oct 96	Basic Project Management	16	Worcester Polytechnic Institute
Jun 96	Introduction to Design of Experiments and Statistical Process Control	16	Worcester Polytechnic Institute
Jun 96	The Taguchi Method of Experimental Design	8	Worcester Polytechnic Institute
Mar 96	Time Management	8	Worcester Polytechnic Institute

PROFESSIONAL

Registered Professional Engineer, 45453, Massachusetts

Licensed Private Detective Agency, P-1545, Massachusetts

Certified Fire & Explosion Investigator, 8446-3596, National Association of Fire Investigators

Member, Standards Technical Panels 982, Motor-Operated Household Food Preparing Machines, Underwriters Laboratories

Member, Standards Technical Panels 1026, Household Cooking Appliances, Underwriters Laboratories

American Society of Mechanical Engineers, 2927747

Institute of Electrical and Electronics Engineers, 41307491

International Association of Arson Investigators, 26220

National Association of Fire Investigations, 8446

National Fire Protection Association, 2030453