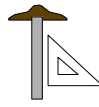


# FORENSIC ENGINEERING SCIENCES, INC.

*A Professional Corporation of Engineering Consultants since 1990*

2586 Nazareth Road  
P. O. Box 3938  
Easton, PA 18043-3938



Telephone: (610) 253-6336  
Toll Free: (866) 554-6343  
Facsimile: (610) 253-6177

**Resume:** **DAVID F. TOLER**

**Education:** Bachelor of Science in Aerospace Engineering (1972)  
West Virginia University, Morgantown, WV  
Master of Engineering - Mechanical (1981)  
Stevens Institute of Technology, Hoboken, NJ

**Specialized Training:**

Engineering Professional Development Program - Florida Atlantic University  
Methods of Failure Analysis - American Society for Materials (ASM)  
Residential and Industrial Electrical Training - Wyoming County  
Vocational Technical School, Pineville, WV  
Electrical Fires, Cause and Origin - Monmouth County (NJ) Fire Academy  
Electrical Safety in the Workplace - National Fire Protection Association  
Oxygen System Fire Hazards - American Society for Testing & Materials  
Welding and Heat Treatment - West Virginia University (WVU)  
Machine Shop - WVU & N. Technical Education Center, Riviera Beach, FL  
Refrigeration and Air Conditioning - North Technical Education Center  
Oil Burner Service Training - Beckett Corporation  
Auto Mechanics - North Technical Education Center  
Vehicle Arson Detection - Burlington & Morris County (NJ) Fire Academies  
Certified Fire & Explosion Investigator - NAFI National Certification Board  
Advanced Traffic Accident Reconstruction - Institute of Police  
Technology and Management, Jacksonville, FL  
Qualified Inspection Mechanic for all Motor Vehicles - Pennsylvania  
Certified Master Automobile Technician - National Institute for  
Automotive Service Excellence, Inc. (ASE)  
Industrial Lift Truck Operation and Operator Training  
Professional Safety Review Course - Northampton Community College  
OSHA 30 Hour General Industry Safety Training

**Professional:** Professional Engineer (1979)  
Commonwealth of Pennsylvania License No. PE-039674-R  
State of New Jersey License No. GE25611  
State of New York License No. 080256  
  
Professional Member - American Society of Safety Engineers (ASSE)  
Member - American Society of Mechanical Engineers (ASME)  
Member - Society of Automotive Engineers (SAE)  
Member - National Association of Fire Investigators (NAFI)  
Member - National Fire Protection Association (NFPA)  
Architects, Engineers & Building Officials Section  
  
Adjunct Engineering Instructor - Lafayette College, Easton, PA  
Adjunct Engineering Lecturer - Lehigh University, Bethlehem, PA

## DAVID F. TOLER

### Professional Experience:

#### **Pratt and Whitney Aircraft - Florida Research Center** Design Engineer/Senior Design Engineer (1972 - 1978)

Performed detail design of advanced concept hardware for military jet engines and support systems including complete analysis and documentation.

Planned component and engine testing, and participated in failure analysis of jet engines during the development phase of the program.

#### **Curtiss-Wright Corporation - Power Systems Division** Technical Specialist - Design (1978 - 1981)

Performed detail design and analysis of gas turbine components utilizing advanced cooling, structural and manufacturing concepts.  
Designed aerodynamic and durability test rigs and planned test programs.  
Served as Engineering Liaison for manufacturing prototype hardware.  
Directed engine assembly and instrumentation.  
Designed manufacturing tooling and auxiliary equipment.

#### **Ingersoll-Rand Company - Turbo Division** Supervisor of Gas Turbine Design Group (1981 - 1987)

Responsible for the mechanical design and integrity of gas turbine engines including material selection, aerodynamic performance, heat transfer, cooling performance, auxiliary equipment, cost control and manufacturing.  
Responsible for thermodynamic performance, and planning, executing and reducing data for development and field performance testing.  
Directed and coordinated all failure investigations and material development.

#### **Affiliated Engineering Laboratories, Inc.** Engineering Consultant (1987 - 1996)

Activities included systems design, equipment evaluation, engineering studies, reports, and laboratory testing relating to evaluation of design propriety, equipment failure analysis and accident investigations.

#### **Forensic Engineering Sciences, Inc.** President

Providing engineering consulting services to clients in product evaluation, equipment fires, equipment failure analysis, accident reconstruction and machine design, including issues of guarding, warnings and safety.