

Analytic Engineering

Engineering Consulting

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Resume: **STEVEN R. THOMAS, P.E.**

Education: Bachelor of Science - Engineering (Mechanical and Electrical)
Widener University, Chester, PA (1979)
Master of Science in Engineering Science (Safety Engineering / Human Factors)
New Jersey Institute of Technology (1997)

Non Degree Training:

- Kepner Tregoe - Problem Solving and Decision Analysis
- DuPont Explosives Handling and Safety Seminar
- RCRA Training Seminar - New Jersey Institute of Technology
- Building Design Seminar - New Jersey Institute of Technology
- Building Site Planning Seminar - New Jersey Institute of Technology
- Forklift Instructor Training - National Safety Council
- Practical Fire Cause and Origin - Public Agency Training Council
- Advanced Commercial Vehicle Accident Reconstruction -
Texas A&M and NTSB
- Advanced Traffic Accident Reconstruction
I.P.T.M., University of North Florida
- Automobile Fire Investigation - Intl. Assn. of Arson Investigators
- Anti-lock Brake Systems Seminar - Wagner Brake Products
- Accidental Injury: Biomechanics & Prevention - University of California
- 43rd Annual Stapp Car Crash Conference, 1999
- Crash Data Retrieval Analysis Courses - Collision Safety Institute
- 12th Annual Ergonomics Conference - University of NH, 2002
- Safety Management for the Construction Industry - University of NH
- Principles of Failure Analysis - ASM International
- Machine Guarding - Rockford Systems
- Efficient Analysis for Steel Design - AISC
- 2010 National Crash Analysis Conference - National Crash Analysis Center
- Keene State College OSHA Training Institute:
Occupational Safety and Health Standards for the Construction Industry;
Occupational Safety and Health Standards for the General Industry;
OSHA 3085 Principles of Scaffolding.

Professional: Professional Engineer Licenses - New Jersey - #30386
- New Hampshire - #9823
- Maine - #12921
U.S. Patent #4,667,381 Flat Cable Terminating Apparatus
U.S. Patent #6,076,532 Hair Gathering Device

Professional Experience: **Naval Ship Engineering Center**, Philadelphia, PA
Clutch and Gear Division
Machinery test procedure preparation.
Naval ship drive train proposal evaluation.
Structural steel design work.
Engineering Assistance for fleet repair and maintenance.

Thomas & Betts Corporation, Bridgewater, NJ
Research & Development Laboratory

Development of test programs for product and tool performance evaluation, durability and qualification.
Design and fabrication of electrical and mechanical test equipment.

General Cable Company, Edison, NJ
Research & Development Laboratory

Development of new products, equipment and processes.
Investigation of product failures and customer complaints.
Electrical and mechanical equipment and tooling design and development.
Product and material specification preparation.
Develop and train personnel.

General Motors Company, Linden, NJ
Tooling Department

Design, layout, installation and repair of automobile assembly equipment and fixturing.
Supervisory capacity over tool makers.
Training of personnel in equipment use and repair.
Responsible for proper and accurate assembly of automobiles and troubleshooting of assembly problems.

Thomas Engineering, Bridgewater, NJ

Building systems design and evaluation.
Residential home inspection.
Machinery, electromechanical component and systems design and evaluation including control system design.
Site plan preparation.

Breed Automotive Corporation, Boonton, NJ

Held the positions of Sr. Manufacturing Engineer - Facility and Safety Manager and Product Engineer.

Responsible for facility management, equipment design, layout and installation, buildings construction and renovations including safety engineering and environmental management.
Responsible for developing functional air bag crash sensor systems; including sensor component design, crash performance analysis and vehicle interface.

Affiliated Engineering Laboratories, Inc., Edison, NJ
Engineering Consultant

Machinery, tools, equipment and systems evaluation.
Laboratory and physical test analysis.
Equipment and product failure analysis.
Accident study and reconstruction.

Analytic Engineering
Engineering Consultant

Machinery, tools, equipment and systems evaluation.
Safety and ergonomic assessment.
Laboratory and physical test development and analysis.
Equipment and product failure analysis.
Accident assessment and reconstruction.