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## **PROFESSIONAL BACKGROUND:**

Over 30 years experience in applying Engineering Analysis and Management Techniques in the field of Mechanical Engineering:

- Computer Simulations and Programming
- Finite Element Analysis (FEA)
- Classical Analysis using Theoretical Methods
- Re-organization and staffing of Engineering Departments
- Implementation of improved documentation flow from Order Entry to Production, including Drawings, Bills of Materials, CNC data, Routings, and Operating and Maintenance Manuals

Areas of Expertise Include:

- Power Transmission Design, Kinematics of Machinery, Linkage Design and Synthesis, Cam Profile Design
- Structural Analysis (Static, Dynamic, Non-Linear) of Weldments and Machine Components for Better Quality and Optimum Design
- Pressure Vessel Engineering Analysis following ASME Sec VIII Div 2 for Cyclic Loading Review
- Application of the DDAM shock specification from the Navy
- Failure Analysis of Machinery and Products
- General Engineering and Production Management with emphasis on detailed Project Management
- Customer interface and Technical Sales Support
- Expert Witness Support and Testimony
- Validation IQ/OQ Documentation
- AUTOCAD, SOLIDWORKS, FEA

Work History:

Appointed as a Provider of courses and course materials for PDHonline.Org - November 2009

Appointed to serve as a member of ASME Technical Committee 30 Power Press Standards (B5) – January 2006

Artech Engineering Inc - President and Principal Engineer  
2003 – current.

Provider of Engineering services in Engineering analysis, detailed Engineering design for new products and machinery upgrades, Forensic Engineering / Expert Witness Support and Testimony, Engineering management, and design evaluation (view work samples at [www.artechengineering.com](http://www.artechengineering.com))

The Fitzpatrick Company – Director of Engineering 1995 - 2003  
Manufacturer of pharmaceutical, food, and chemical processing equipment

Danly-Komatsu L.P. Manager of Mechanical Engineering 1989 – 1995  
Manager of Engineering Analysis 1984 – 1989  
Engineering Analyst 1979 – 1984  
Manufacturer of mechanical presses and automation

## **EDUCATION:**

Bachelor of Science in Mechanical Engineering  
University of Illinois, Champaign/Urbana 1979

## **SOCIETIES AND ACHIEVEMENTS:**

American Society of Mechanical Engineers (ASME)  
Registered Professional Engineer  
Holder of one Patent (5,081,860)  
Contributed to two publications:

- Die Design Handbook, 3<sup>rd</sup> Edition
- Quick Die Change

Published a feature article in Mechanical Engineering (February 2007)  
Management Techniques using the Bill of Material

Published an article in Metal Forming Magazine (July/August 2009)  
Rebuilt Machinery Opens Up New Concerns About Safety

Published an article in Metal Forming Magazine (December 2017)  
Getting the Most From Mechanical Presses

Published a book on Amazon, The JFK Assassination: A Technical Review of the Evidence (March 2022)

Published a book on Amazon, Managing Company Production Thru the Bill of Material (September 2023)

Published a book on Amazon, FEA Applications in Machine Design  
(February 2025)