

CURRICULUM VITA/JOHN H. HAMILTON

Education

MSME, August 1997, *University of Arkansas, Fayetteville.*
The course of study was in thermal systems

BSME Dec 1990, *University of Arkansas, Fayetteville*

Short courses

Occupational Safety and Health Administration guide to voluntary compliance

Accident reconstruction

Manufacturer training of programming various PLCs

Various seminars on environmental compliance

Work Experience

December 2002 to present, Assistant Professor at University of Arkansas. Duties include teaching undergraduate engineering classes, advising engineering students and acting as liaison between University of Arkansas at Fayetteville College of Engineering and university of Arkansas at Fort Smith campus

June 98 to December 2002, Senior engineer at *Ryan Engineering, Inc., Siloam Springs, Arkansas*

Duties include industrial consulting and serving as an expert witness

Aug. 1996 to May 1998, Instructor at *John Brown University, Siloam Springs, Arkansas.* Responsible for teaching undergraduate Science and Engineering classes.

Summer 1996, summer 1997, fall 1999, Instructor at *University of Arkansas, Fayetteville, Arkansas.* Responsible for teaching undergraduate Thermodynamics classes.

May 1994 to May 1996, Graduate Teaching Assistant at the *University of Arkansas, Fayetteville, Arkansas.* Responsible for helping undergraduate students learn basic engineering principles.

May 1994 to May 1998, Independent Consulting
Responsibilities include various consulting jobs from performing energy analysis on infrared space heaters to completing federally required hazardous material emissions reports.

November 1991 to May 1994, Summer 1997 Plant Engineer, *FM Corporation, Roger Arkansas.* Responsibilities included facility and equipment upgrades and revisions and plant wide compliance with safety and environmental regulations.

January 1991 to November 1991, Manufacturing engineer, *FM Corporation, Rogers, Arkansas.* Responsibilities included designing and improving manufacturing processes and communicating with customers as needed.

**John Hamilton
Enterprises, Inc.**

Home Office
17252 N Hwy, 215
Mountainburg, AR
72946
479.790.6782
Fax: 479.369.01117

Professional Engineer:
John Hamilton MSME
PE

World Wide Web:
www.jhengineer.com

Email:
John@jhengineer.com

Licensed in:
Arkansas

Courses Taught and Academic Experience

Thermodynamics I and II	College Physics I and II
Engineering Design I	Materials Science
Machine Design	Physical Science
Fluid Mechanics	Dynamics
Technology and Society	Mechanical Systems for Buildings
Mechanical engineering Lab I	Mechanical Engineering lab II
Mechanical Engineering Lab III	Industrial waste & Energy Mgmt

Served as mentor for senior design projects involving industrial applications

Researched feasibility of two phase effervescent fluid atomization of a liquid by means of a liquid chemical reaction for the purpose of hypersonic air travel

Researched the affect of molecular mass of an atomizing gas in effervescent atomization applications

Publications

Two Phase Effervescent Atomization Via a Liquid-Liquid Chemical Reaction, university of Arkansas Press 1997

Hazard Analysis, Plant engineering, December 2002

Professional Organizations

Member: American Society of Mechanical Engineers (ASME)

Professional Engineer Licenses

Licensed Professional Engineer registered in Arkansas

Engineering and Design Experience

- Developed process sheets for Molding, assembling, and finishing of plastic parts.
- Designed and oversaw completion of a chilled water system
- Upgraded Structural Foam I (injection molding) machines to use (PLCs) and modern hydraulic technology
- Designed guarding for Molding and machine tools.
- Designed mezzanine
- Designed stairs
- Designed guard rails
- Assisted in performing thermal analysis of wood burning furnace
- Developed testing procedure to establish efficiency of infra red heaters
- Designed and built machines to rework plastic parts
- Designed various jigs and fixtures to aid in production of plastic parts, which included drilling, cutting, welding, inserting, etc.
- Implemented OSHA standards in an industrial facility
- Designed ellutriater for cyclone dust collector
- Designed guards

**John Hamilton
Enterprises, Inc.**

Home Office

17252 N Hwy, 215
Mountainburg, AR

72946

479.790.6782

Fax: 479.369.01117

Professional Engineer:

John Hamilton MSME
PE

World Wide Web:

www.jhengineer.com

Email:

John@jhengineer.com

Licensed in:

Arkansas