

EMPLOYMENT HISTORY

ENGINEERING CONSULTANT

Applitech, Inc.

In 2001 I moved from the Lehigh Valley to Hawley, PA from where I have been doing both mechanical engineering consulting and custom software development projects. Recent ME projects the conceptual design and 3D solid modeling of an underwater current powered electrical generating station and the design, prototyping and development of a float operated valve for a single point water filling system for industrial batteries. Recent software projects include a custom MS Access based equipment and operator scheduling system for an environmental testing company in Massachusetts.

2001 - PRESENT
Hawley, PA

SOFTWARE ENGINEER

Applitech, Inc.

Applitech is the company I founded in 1995 to sell a staff scheduling software product I developed and named "Schedule Builder". Written in Visual Basic and marketed via the Internet, I have approximately 100 Schedule Builder systems installed in companies in six countries between 1997 and 2001.

1995 - 2001
Quakertown, PA

CHIEF ENGINEER

Innovare, Inc.

Innovare is a small engineering company that develops advanced metalworking equipment and technologies for R&D labs and government agencies. At Innovare my primary responsibilities were the design of custom, computer controlled metalworking equipment. I personally designed the mechanical, electrical, thermal and instrumentation and developed all the software for real-time PC based control systems for a variety of one-of-a-kind hydrostatic extrusion presses, hot mechanical extrusion presses, isostatic and tri-axial compaction test systems. This equipment was primarily used in government labs for development of exotic materials for aerospace applications. I also supervised a small group of drafting, machine shop and fabrication technicians.

1984 - 1994
Bath, PA

RESEARCH ENGINEER

Bethlehem Steel Corporation

I started as a mechanical design engineer at Bethlehem Steel immediately upon graduation from R.I.T. in 1975. Over the nine years I was there I worked my way up to full Research Engineer designing all types of one of a kind equipment for use in both the research labs and in the mills. My ultimate assignment was the design of multi-million dollar automated pilot production plant for a unique, patented bi-axially oriented polymer product developed in conjunction with Kusan, Inc., then a Bethlehem Steel subsidiary company. I also developed software packages which were used by my Laboratory Services Division for job cost tracking and time keeping. I was on the corporate CAD System Implementation Committee.

1975 - 1984
Bethlehem, PA

EDUCATION

BACHELOR OF SCIENCE - MECHANICAL ENGINEERING
Rochester Institute of Technology

1970 - 1975
Rochester, NY

I graduated with AHighest Honors@, ranked second in the engineering department with a 3.89 g.p.a.

I have held a current Professional Engineer's license (Mechanical) in the state of Pennsylvania since 1984.

Although I have limited formal education in computer science and information technology I have 30 years in depth experience working in that field.

I am a graduate of Wallenpaupack Area High School, Hawley, PA, an Honorably Discharged member of the USMC, and a Vietnam veteran

SKILLS

INFORMATION TECHNOLOGY

SYSTEMS ANALYSIS - 20+ years designing, developing and maintaining original, complex PC applications and databases of all types

PROGRAMMING - Visual Basic Releases 1 through 6, ADO, VBA in MS Access, ASP using VBScript, currently learning VB.net and ASP.net

INTERNET - Ten years experience in web site development, setup, and maintenance. Strong html skills

APPLICATIONS - Experienced using all MS Office applications, various types of staff and project scheduling systems, accounting systems, engineering design and analysis programs. Have installed and maintained DOS, Win95, Win 98, and XP operating systems. I have setup and maintained peer to peer networking, firewall and AV software.

HARDWARE - I have build a dozen PCs from components over the years and done motherboard, hard drive, video cards, memory upgrades, etc.

MECHANICAL ENGINEERING

DESIGN - Twenty plus years experience designing machinery, process equipment, and tooling of various kinds. I worked primarily for R & D groups in the metal working, polymer processing industries. I had nine years experience on drafting boards until moving to CAD in 1984.

CAD - I was on the Bethlehem Steel Corporate CAD

Implementation Committee in 1983. At Innovare I set up the engineering department where we were among the first in the area to use 3D CAD design wire frame/surfaced models and solid models and 2D X-Ref detailing from 3D geometry.

CONTROLS - As a Project Engineer at Bethlehem Steel Research I was responsible for specification of control and data acquisition systems for my projects. At Innovare I personally designed and programmed several one-of-a-kind PC based process control and data acquisition systems (1987 to 1995).

HYDRAULICS – I have designed several hydraulic systems which were used to operate metalworking and polymer presses. These were high performance precision systems utilizing 4600 psi pumps and multiple computer controlled servo valve.

STRESS ANALYSIS – In addition to countless beams, brackets and miscellaneous pieces of tooling, I have designed several ultra high pressure hydrostatic chambers for materials R&D use, some with working pressure ratings of up to 250,000 psi. I have also designed half a dozen pre-stressed tie rod alloy steel hydraulic press frames.

HEAT TRANSFER – I have designed several hot mechanical metal extrusion chambers and both hot and warm extrusion press systems.

MANAGEMENT

PROJECT MANAGEMENT - responsible for managing the design and delivery of a \$1M+ pilot plant for biaxially oriented polymer processing at Bethlehem Steel Research Labs, 1980 to 1984. Managed several engineering equipment development projects at Innovare including a 200 kpsi triaxial compaction press delivered to the National Center for Excellence in Metalworking Technology located at Concurrent Technologies Corporation, Johnstown, PA.

PERSONNEL MANAGEMENT - responsible for managing a small group of laboratory technicians, an electronics technician and a toolmaker at Innovare, 1984 to 1995

BUSINESS MANAGEMENT – I have operated my own software and consulting business, Applitech, Inc., since 1995.