

Technical Competency Profile

This document provides evidence of my ability to both understand and apply technical knowledge in a practical manner. This is not a part of my resume proper, but only supplements the information outlined in my resume by providing details of relevant work experience and coursework that require technical aptitude. Although intensive training and education in writing, editing, software tools, and research techniques is critical to a technical writer's success, the importance of a proven ability to understand technical subject matter should not be understated. This document describes both my practical technical experience and formal education and training.

Practical Technical Experience

- **Hi tech Assembly.** Everson Electric, Bethlehem PA. Responsible for building propulsion bonds for railroad signal switching systems. The process included constructing an electrical coil, attaching a connection plate, soldering leads, varnish bath, and forming a protective epoxy-based material around bond. Needed to read and interpret blueprint specifications. Assisted department supervisor and trained other employees in different assembly operations.
- **Chemical Processing.** Air Products and Chemicals, Allentown, PA. Assisted in development of experimental water-based mold release agent to replace chemical-based agent used in the manufacture of foam rubber products for automotive interiors. Process had 28 steps and required careful temperature monitoring. Chosen from processors to represent company and test example batches of the agent at a major auto parts supplier in the Philadelphia region.
- **Utility Person.** Stanley Vidmar, Allentown, PA. Worked as assembler, packer, and material handler for major steel cabinet maker. Switched to different departments when necessary. Made custom steel cabinets assembling and attaching hardware to customer specifications. Supplied lines. Trained in operation of retrieval storage unit. Packed special orders. Used hydraulic lift to double and triple stack cabinet on skids.

Technical Education & Training

- **Industrial Technology Minor.** East Carolina University, Greenville, NC. Successfully completed 27 credit hours of Industrial Technology coursework equivalent to most Associate degree programs in technical disciplines while earning B.A. in English (writing). Minor GPA: 3.55. The following list details the coursework for my Manufacturing concentration in Industrial Technology:

ITEC-2000, 2001 Industrial Technology Applications of Computer Systems (3,0)

The technical and managerial aspects of computer applications and information technology in industry and engineering areas. Emphasis was on computer concepts, DOS, Windows 3.1 OS, MS Word and Excel, and Autocad version 12.

ITEC-2010 Introduction to Industry and Technology (3)

An introductory study of industry and technology which provides a foundation for advanced study in the various technology specialization areas. Emphasis was on the basic technical and technical managerial concepts of manufacturing, construction, and service industries with some attention to the evolution of industry and industrial education.

ITEC 2020 Materials Technology (3)

A broad technical study of the physical characteristics, mechanical properties, chemical properties, and applications of the materials of modern industry, including metallic, fibrous, polymeric, ceramic, composite, and semiconductor.

ITEC 2090 Energy Processing and Trans-Actional Power Systems (3)

A technical investigation into energy converters and trans-actional power systems including mechanical, combustion, electrical, and fluid power converters. Design project of a hydraulic or pneumatic power system for some practical application was required.

ITEC 3292 Industrial Safety (3)

A study of the causes and prevention of occupational accidents and health hazards with emphasis on the organization and operation of safety programs and the development of safety consciousness. Historical survey of events that led to industrial safety standards and legislation. Research project paper was required.

ITEC 3290,3291 Technical Writing (3,0)

Formal instruction was given in procedures and techniques of report writing coupled with laboratory investigation of technical problems of significance. Particular emphasis was placed on modern technical writing style conventions and design principles.

ITEC 4300 Quality Assurance (3)

A study of managerial, statistical, motivational, and technological aspects of quality control as practiced in manufacturing, construction, processing, and service industries. Special emphasis is on SPC, CQI, and Constraints management from Deming to Goldratt.

MANF 2076, 2077 Non-Polymeric Materials (3,0)

Study of the shaping, forming, and utilization of non-polymeric materials such as metals, ceramics, and combinations that are used in the various manufacturing processes in industry. A practical approach, involved planning and conceptualization of products was emphasized using CAD/CAM, CNC programming, CNC end mill and lathe. Each project required detailed technical reports explaining process steps, problems, and problem resolutions.

MANF 3300 Plant Layout and Materials Handling (3)

Basic principles of plant layout and materials handling as they related to the manufacturing industrial setting. Scheduling/Purchasing software STORM utilized.

- **Constraints Management Seminar.** Technology Systems Corporation, Bethlehem, PA. Attended two-day Constraints management seminar outlining proprietary 3D management concepts and techniques for systems design and analysis. Summit simulator. Course training and prior Constraints management education was basis for specialization in education materials and marketing materials requiring more subject matter expertise.
- **ISO-9001 Training.** Lucent Technologies, Inc, Allentown, PA. Attended ISO Awareness seminar that included introduction to ISO standards, documentation overview, audit basics, and Manufacturing Distribution Information System (MIDS) version control software training.
- **ESD Training.** Lucent Technologies, Inc, Allentown, PA. Attended electro-static discharge (ESD) awareness and safety training, testing, and certification.
- **FPGA Product Line Training.** Lucent Technologies, Inc, Allentown, PA. Attended seminars on FPGA strategic marketing goals, device architecture, and software design flow which outlined the basics of the Lucent ORCA Foundry Development System Field Programmable Gate Array product line.