

# **GREGORY E. ZBACH**

## **EDUCATION:**

Gannon University - Erie, Pennsylvania  
B.S. Electrical Engineering - 1974  
Technical Memorial High School - Erie, Pennsylvania  
Electronics Certificate - 1969

## **EDUCATIONAL ACHIEVEMENTS:**

Dean's List; Intel Training - MCS-48, IAPX 86/88, IRMX-86, REX-86 Real Time Executive, and PLM-86 workshops; Voice Control, Sensor/Transducer, Verbal Communications and Product Line Marketing seminars, and ISO/QS9000 Internal Auditor Training.

## **SPECIAL INDIVIDUAL ACHIEVEMENTS:**

Designed microprocessor controllers, software packages, Apple interface boards, and an analytical instrument interface for local businesses, including Lord and Erie Computer.

## **WORK EXPERIENCE:**

### **1991 - 2014 SUNBURST ELECTRONICS - Erie, Pennsylvania (Retired)**

- Program Manager - FMC Technologies; Moog Incorporated, Lord Corporation  
(Repair Center Manager from 1997 to 2006; Engineering Manager from 1991 to 1997)
- Achievements: Responsibilities included all system configurations, orders, forecasting, problem resolution, pricing, expediting, inter-company communications and structuring of this new position.
- As Repair Center Manager, responsible for all repair center functions including scheduling, customer liaison, product revisions, structures and routers, repair quotes, inventory, work orders and employee reviews. Also responsible for full repair center start-up including layout, benches, tools, shelves, ESD systems, ISO procedures, equipment and hiring.
- As Engineering Manager, setup and maintained drawing control system including revisions, process specifications, SPC procedures, audit system, quality manual rewrite and update, change control and the non-conformance system.
- Marketing support: Designed an interactive cdrom presentation that includes a virtual shop and product tour. Designed web site. Photography support.

**8/88 - 1/91 AUTOCLAVE ENGINEERS, INC. - Erie, Pennsylvania**

- Technical Sales - Research Instrumentation

Product line development and sales support for process instrumentation

- Achievements: Development and organization of complete instrument product line for control of pressure, temperature, speed, flow, level, and weight of research vessel systems. Includes image statement, designs, specifications, brochures, pricing structure, forecasts, standard quotation packages, direct customer quoting, marketing and sales organization, training, and field installation.

**5/86 - 7/88 ISS/COMPTEK - Erie, Pennsylvania**

- Quality Assurance Manager

Manager of Quality Assurance and Engineering Departments

- Achievements: Responsible for all aspects of quality within the company. Includes procedure writing, training, quality surveys and audits. Military experience includes contracts, specifications, quality, testing, and reports. Manufacturing experience in PC board assembly, soldering, cleaning, coating, and testing, PCAD schematic capture and board layout.

**1/86 - 5/86 AUTOCLAVE ENGINEERS, INC. - Erie, Pennsylvania**

- Senior Engineer (Temporary assignment)

Project responsibility for design of Autoclave systems

- Achievements: System design; including power and control panels, signal and process controllers, programmable logic controllers, and transducers. Developed software for IBM PC in BASIC, process controllers in FORTH, and PLC's in LADDER/BOOLEAN.

**6/85 - 11/85 PENN MICROSYSTEMS COMPANY - Girard, Pennsylvania**

(No longer in business)

- Senior Engineer

Project responsibility for hardware design of General Electric shovel monitor system

- Achievements: System design of shovel monitor. Designed/developed: EEPROM Memory-I/O board for Multibus based CMOS 8086, 14 bit Analog Data Acquisition Module, 12 bit resolver to digital converter board, high reliability power supply system, and IBM PC interface board. Also organized electronics lab.

**1980 - 1985 AMERICAN STERILIZER COMPANY - Erie, Pennsylvania**

- Senior Engineer - Research and Development

Hardware/Software design of microprocessor controls for sterilizers and hospital equipment

- Achievements: Project responsibility for modular, multiprocessing control system; EAGLE II. Included system and board design, ISBX based network computer, data acquisition, digital I/O, multiprocessing serial interface, and a parallel expansion board. Developed PRINTCON-8048 based sterilizer controller. Designed voice recognition system. Wrote application software for EAGLE sterilizers. Presented in-house seminars and courses.

### **1978 - 1980 TALON DIVISION OF TEXTRON - Meadville, Pennsylvania**

- Electrical Engineer - Technical Services

Design, develop, and/or apply microprocessor, digital, analog, and optical controls for production and inspection machinery

- Achievements: Designed stepper and DC motor controls, 6502 based emulator, Opto-Electronic Flaw Detection and Position Sensing Designs. Designed controls for zipper production machine.

### **1974 - 1978 GEOSOURCE, INC. (SMITH METER) - Erie, Pennsylvania**

- Electronic Development Engineer

Design, develop, and/or apply digital and analog controls for service station and flow control

- Achievements: Designed the HK Prepay/Postpay CASHCON gas console with U.L. listing; designed two analog and five F8/Z80 I/O boards, CFC21/BCD8, BCD/TTL, BPS-12, and CG-28 process instruments. Taught maintenance school.

### **MISCELLANEOUS:**

Gold Key Award in Electronics and National Honor Society; Instrument Society of America: past member: Executive Board - Erie Civic Ballet and Vice President of Erie Summer Festival of the Arts; music composer (three published CD's); own sound production studio; Award winning nature photographer.

### **REFERENCES:**

Furnished upon request.