Edward J. Pendyk

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KEYWORDS

Contract Engineering, Engineering Management, Project Management, Engineering Design Rescue and Recovery, Engineering Start-up assistance, Vice President of Engineering, Director of Engineering, Director of Manufacturing.

PROFILE

Dynamic, resourceful, result-oriented person, with a lengthy track record of successful development and commercialization of electronic products. Over 20 years of management and hands-on engineering experience in R&D, design and manufacturing processes of electronic products and devices.

Self-starter, specializing in start-ups, reorganization or expansion of small to mid-sized companies. Designed over 60 successful products. Introduced many innovative designs and manufacturing solutions to cut time-to-market and to reduce the cost of R&D and production. Almost every product developed was successfully manufactured.

EXPERTISE:

Management of operations of small and medium size companies:

Product design and marketing research.
Product development planning, scheduling and execution.
Organizing and maintenance of efficient workflow environment from engineering lab through manufacturing.
Documents control and database maintenance for design and manufacturing.
environment from engineering lab through manufacturing.
Supervising and coordinating the engineering, manufacturing, testing and quality control operations.
Selecting and negotiating with vendors.

ENGINEERING SKILLS:

Product design of Electronics equipment from concept through production including:

Circuit and PCB Design,
Enclosure design
Electromechanical packaging,
Assembly and testing,
Production-ready documentation:
- Brochures,
- Manuals
- Assembly instructions
- Test procedures

OTHER SKILLS:

IT – development and maintenance of Ethernet LAN network for small companies.
Webpage design and Internet Marketing.
Book author – “Why Companies Fail” (work in progress)
Very extensive knowledge of many different software applications varying from electronics and mechanical CAD and CAM, graphics and business programs through hardware and software development tools and utilities.
Real estate residential construction builder – developer, Lathe and Mill operator, Auto and Motorcycle mechanic.

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EXPERIENCE:

Director, Operational Engineering 1995 - 1999
Apogee Electronics, Santa Monica, California

Managed the engineering, CAD and production testing departments. In addition to management duties, designed or participated in the design, of numerous products for Apogee and OEM accounts. Since my arrival, and largely due to the work I did, annual sales increased from $3 to over $10 million within two years.

Sample accomplishments:

- Developed ultra stable Low Jitter Clock, the key component of Apogee products, including card module variants for OEM clients Mackie and Onkyo.
- Authored Design Guidelines Manual for Engineering, CAD and Manufacturing Operations, encompassing over twenty years of my electronic design and management experience and a sound formula for good engineering design practices for the electronics design industry.
- Resolved design and manufacturing problems in existing product line after joining Apogee. Work included a new power supply as well as other improvements to the AD8000, which is Apogee's flagship product. As a result, failure rates dropped from about 30% to less than 1%, and the product received the TEC award at the Audio Engineering Society Show in 1998. The TEC Award is the most prestigious award in the professional audio industry.
- Designed all the critical noise-sensitive and high frequency segments of all the PCB layouts in Apogee products. The resulting excellent performance of Apogee A/D and D/A converters earned TEC awards for Apogee for the PSX100 in 1999 and for the FC8 in 1997. The designs also brought new A/D and D/A OEM contract business from Yamaha and other companies.
- Developed a revolutionary new modular system architecture for future Apogee products. By including totally reprogrammable and downloadable software for main and DSP microprocessors and firmware for PFGA and CPLD's, the design facilitated further development and troubleshooting of current and new designs with minimum or no board modifications.

Project Manager 1999 – 2001
Alesis Studio Electronics, Santa Monica, California

Designed electronics and managed the electronics engineering of DSP controlled Prolinear 820 studio reference monitor speakers for recording studios. Performance was virtually flat from 45-20000Hz within less then 1db. Designed electronics for powered speakers M1 Active MK2.

Owner/Operator 1989-current
AmeTel, Santa Monica, California

Founded and operated an Engineering, R&D and Business Management consulting company.
Sample of AmeTel accomplishments:

- Performed various engineering and mechanical designs projects, developing prototypes and production versions and resolving numerous design and manufacturing problems.
- Developed numerous engineering test and development and video related products..
- Developed Electro-Mechanical Robot for testing the life-testing of laptop computers by simulating typist functions of a computer. The entire design was completed and delivered in 4 months, including the conceptual design of all the electrical and mechanical specifications. Presently used and manufactured by Veritest**,** Santa Monica, CA.
- Developed IMTS-type Mobile Telephone Control Head. The product was featuring fully automatic dialing with functionality very similar to cellular telephones, and was manufactured by JJK&A, Beverly Hills, CA.

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Engineering Manager 1987-1989
Digi-Spec, Van Nuys, California

Directed engineering and manufacturing departments leading the design of a Time Lapse Recorder for security and scientific applications.

Project engineer 1986 - 1987
MCT Corp., Culver City, California

Directed the design of world's first cache based microprocessor accelerator board for Apple II Personal Computer and brought it to production. Assisted in the design of plug-in 6502 replacement module with custom ASIC and cache memory, arguably the father of microprocessor designs incorporating built-in cache memory by companies such as Intel.

President 1980 - 1985
Signum Systems, Moorpark, California

Co-founded start-up Signum Systems - a company specializing in the design and manufacture of test equipment for microprocessors and contract designs for OEM clients.

Directed development of a self-contained Medical Data Collection and Analysis Processing Instrument for Gamma Counters and Spectrophotometers instrument for Hybritech -- medical immunoassay manufacturer.

In 1985 sold the company and developed ICE51, an in-circuit emulator for the 8051 family of microprocessors. It became the best-seller and the foundation for the future growth of the company. Signum Systems emulators are now recognized as one of the best in the industry.

TECHNICAL EXPERTISE

Many years of practical experience in all stages of electronic and mechanical research, design, and manufacturing processes. Extensive broad-based experience in designs consisting of analog, digital audio, high frequency, power, digital and embedded systems applications. Versatile in design methodologies including PGA, CPLD, and Electro-mechanical packaging design, using a variety of CAD software packages.

BUSINESS EXPERTISE

Successful track record with start-up business, having started two successful and profitable companies. Competent in many areas of business management including new business development, organization of start-up companies, project management and scheduling, strategic planning, vendor selection and evaluation, business and technical information search and retrieval, and contract negotiations.

EDUCATION

- "Renaissance Man" type body of knowledge and experience.
- Self educated through over thirty years of involvement in numerous companies and different projects and insatiable appetite for learning and collecting information about all kinds of technologies in every field imaginable.
  Built a huge (several terabytes) lifetime collection of reference data and technology library.
- University of Mining and Metallurgy, Krakow, Poland
  Electronics, Industrial Automation
- Polytechnic University, Krakow, Poland
  Mechanical Engineering
- Technical High School of Mechanical Engineering, Krakow, Poland
  Mechanical Engineering - Machine Design.

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SAMPLE OF THE PRODUCTS DEVELOPED AND MANUFACTURED:

Videotap servo lens controller for video cameras (Optitek)
Video Monitor components and subassemblies – keyboards, low noise power supplies etc. (Optitek)
Test instrumentation – Video camera lens calibration instrument (Optitek)
Video related designs – distribution video amplifiers, lens controls for video cameras (Optitek)
Numerous evaluation and test boards for various microcontrollers (Signum Systems)
Electronic packaging and mechanical design of JTAG Emulator Instrument enclosure including the design of custom aluminum extrusion (Signum Systems)
DSP controlled studio reference monitor speakers for recording studios (Alesis)
Programmable Low Jitter Clock module (Onkyo)
Low Jitter Clock card for mixing console (Mackie)
Rosetta A/D - 2 channel Analog/Digital converter (Apogee)
Power supply for PSX100 (Apogee)
Power supplies for AD8000 (Apogee)
Pager design
Modem/Fax PCMCIA card for laptop computers
Memory cards for printers
SIMM memory modules for PC's
CC768 Low Jitter Clock (Apogee)
Electro-mechanical robot for testing the lifetime of batteries for laptop computers (Veritest)
Multimedia special effects video-editing card for PC
Time-Lapse Recorder for security applications
Zip-Chip, accelerator module for Apple II
Speed Demon accelerator card for Apple II
Medical Data Collection and Analysis Processing Instrument
ICE51 in-circuit emulator for 8051 CPU
IMTS Mobile Telephone Control Head
ICE48 in-circuit emulator for 8048 CPU
I/O PCB tester for Okidata Hard Drive
Data PCB tester for Okidata Hard Drive
Formatter/Controller for 3M Cartridge Drive
I/O boards for 3M Cartridge tape drives
Data Pattern generator (p)
3M Cartridge tape drive and 3M Cartridge tape drive controller/exerciser