

PROJECT MANAGEMENT • TECHNOLOGY INTEGRATION • WORKFORCE TRAINING

QUALIFICATIONS

Hands-on consultant and critical thinker who learns quickly, develops industry-specific expertise, and produces immediate contributions. Over 10 years of experience delivering effective solutions and training, from electronics manufacturers to food processors. Results-driven strategist, effectively integrating human needs with wise technological choices. Talented trainer, combining technical savvy and strong public speaking skills to reach diverse audiences. Broadly skilled engineer whose experience includes semiconductors, information technology, and manufacturing.

- Project Planning
- Operations Analysis
- Process Improvement
- Change Management
- Technology Needs Assessment
- Human Interface
- Databases & Networks
- Systems Procurement
- Technical Training
- Curriculum Development
- Web-Based Delivery
- Large Groups

EXPERIENCE HIGHLIGHTS

PROJECT MANAGEMENT & ANALYSIS

- Reviewed manufacturing operations and recommended improvements for a \$20 million food processor
- Spearheaded call center service, quality, and retooling efforts to improve customer satisfaction
- Managed production on low-defect, high-resolution circuit printing line for use in research
- Improved lithography system maintenance resulting in \$100,000 annual savings
- Organized and directed industrial board to advise Microelectronics program in state-of-the-art manufacturing
- Led department of five full-time instructors with courses, schedules, and students on multiple campuses
- Facilitated complex procurement projects for systems and services exceeding \$1 million
- Founded a sustainable, Oregon-based consulting company with \$400,000 annual revenue

TECHNOLOGY INTEGRATION

- Managed IT during startup including desktop support, web presence, financial and customer databases, and networking for a \$40 million energy efficiency organization
- Created systems and processes to disseminate information to manufacturing and customer service employees
- Designed and coded database to track educational development for a major electronics company
- Diagnosed, redesigned and implemented enterprise-scale networks to facilitate utility billing
- Conceived, designed and developed gallium arsenide quantum-effect devices, including manufacturing processes
- Developed silicon circuit manufacturing compatible with diamond-semiconductor research
- U.S. Patent #5825240, Resonant-tunneling Transmission Line Technology, awarded October 28, 1998

WORKFORCE TRAINING

- Tutored manufacturing, logistics, and management personnel on quality improvement principles
- Developed, tested, and delivered digital electronics skills assessment for 250 technicians
- Designed database and delivered content for web-based ammonia refrigeration technician training
- Developed new course content including advanced technology courses such as photolithography
- Received highly favorable evaluations from traditional and returning students
- Created and updated a web-based engineering course, delivering instruction to over 200 students

EMPLOYMENT HISTORY

- Principal, Steaming Kettle Consulting, 1994–present
- Faculty, Portland Community College, 1995–present
- Department Chair, PCC Microelectronics Program, 1998–2000
- Associate Staff Member, MIT Lincoln Laboratory, 1993–1994
- Assistant Staff Member, MIT Lincoln Laboratory, 1988–1993

GRADUATE

MSEE, 1994
Northeastern University
Boston, MA
Thesis: *Resonant Tunneling
Transmission Lines*

UNDERGRADUATE

BS, Physics, 1988
University of Rochester
Rochester, NY
Minor: *Asian Studies and
Japanese*

OREGON MANUFACTURING CLIENTS

Precision Wire Components,
YoCream International, Armstrong
Manufacturing, Northwest Food
Processors Association, Tektronix,
Wacker Siltronic