

Gary Orr, PE, CPE

Ergonomist / Human Factors and Industrial Engineer/ Safety Specialist

Experienced Ergonomist/Human Factors Engineer with expertise in strategic planning, process implementation, process audits, and creative improvements. Proven track record of leading process improvement initiatives as well as auditing ergonomics processes to achieve significant cost savings, performance improvement and employee availability. Consistently delivers innovative, creative solutions to achieve aggressive business goals. Developed the job analysis section of the OSHA ergonomics standard, OSHA ergonomic guidelines and the ergonomic process for the largest postal system in the world. Diverse experience in manufacturing, health care, OSHA, mail delivery and facility design. Strengths include:

▪ Full scope of ergonomic assessments	▪ Ergonomics in services industries, logistics, grocery, housekeeping, healthcare
▪ GUI design	▪ Lean manufacturing tools/methodologies
▪ Development and delivery of training	▪ Project management/budget

PROFESSIONAL EXPERIENCE

Orr Consulting, Alexandria Virginia

January 2001-Present

Consultant to Ergonomic Technologies Corp (ETC)

Working with clients to develop participatory ergonomics processes that are consistent with existing standards, improve jobs and reduce human errors. Specialties include auditing ergonomics programs, providing training, job analysis, and controls. Developed the OSHA ergonomic guidelines for nursing homes, poultry processing, grocery retail, and shipyards. Developed the OSHA computer workstation checklist. Worked with the US Postal Service to implement the world's largest participatory ergonomics process and good ideas database. Postal Service project saved \$100 million over 7 years. Consulted with OSHA on the development of small business guidelines for ergonomics. Reviewed the human factors of control room layout using ISO 11064. Performed one of the landmark task analysis of ergonomics in housekeeping.

University of Maryland, School of Medicine, Baltimore, Maryland **September 2007-Present** **Research Assistant**

Working with the faculty on ergonomics related research projects and education. Provided ergonomic solutions for several nursing homes related to the Maryland Safe Patient Handling law.

Applied Ergonomics Conference **Chair**

March 2009-Present

Coordinate the activities of 50 volunteers and staff at the Institute of Industrial Engineers. The annual conference has approximately 600 participants and 50 vendors. Over 30 company sponsored teams participate in the annual international Ergo Cup competition.

US Department of Labor – Occupational Safety and Health Administration **October 1994- January 2001**

Industrial Engineer/Ergonomist, Washington, DC

Served as the team leader and ergonomics expert on the development of the ergonomics program standard. Assisted field operations in the development of significant enforcement cases. Worked with the healthcare industry to develop a Framework for Safety and Health programs in Nursing

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Homes, also actively participated in the partnership with the Joint Commission for the Accreditation of Healthcare Organizations. Developed the case development protocol to assist compliance officers investigating possible ergonomic cases. Taught ergonomics courses through the OSHA Training Institute.

Southern Illinois University, various campuses

September 1993- January 1999

Adjunct Professor

Taught safety and facility design courses in a weekend format. Consistently received excellent student ratings.

EDUCATION:

- MS in Industrial Engineering, University of Oklahoma, Norman Oklahoma
- Bachelors of Industrial Engineering, Auburn University, Auburn, Alabama

PROFESSIONAL ACTIVITIES:

- Licensed professional engineer
- Certified professional ergonomist
- Member of Organizing Committee - Applied Ergonomics Conference 1998-present
- Served on the Board of Directors for the Board of Certified Professional Ergonomist
- Past President of the National Chapter of the Institute of Industrial Engineers
- Member of the Human Factors and Ergonomics Society, National and Potomac Chapter
- Member of the American Institute of Industrial Hygienist

Honors:

- Alpha Pi Mu – Industrial Engineering Honor Society
- Tau Beta Pi – Engineering Honor Society
- Outstanding Graduating Engineer
- Keynote Speaker at the US Department of Labor Safety Day 2010

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ADDENDUM

PUBLICATIONS

Implementing Ergonomics is not Important – It's Critical, The Leader, Voluntary Protection Program Participants' Association, Falls Church, VA, pgs 28-29, Winter 2010

Monroe, K.A. and G. Orr, "Warnings and the U.S. Occupational Safety and Health Administration" chapter in M. Wogalter, Ed., Handbook of Warnings, Lawrence Erlbaum Associates, Inc., to be published in 2006.

Ergonomic Task Analysis for Hotel Housekeeping, study for UNITE-HERE. November 2004

Development of Ergonomics Programs, and Success Factors for Industrial Ergonomics Programs, The Occupational Ergonomics Handbook, pgs 79-96 and 1561-1574, W. Karwowski and W. Marras editors, CRC Press, Boca Raton Florida, 1998.

Musculoskeletal Disorders Among Health Care Workers, The Environment of Care Series, OSHA and Environment of Care Compatibilities, 1998, Joint Commission on Accreditation of Healthcare Organizations, pgs 49-55, Oakbrook, IL.

Evaluating Ergonomics Programs, Ergonomics in Manufacturing - Raising productivity through workplace improvement, Society of Manufacturing Engineers, 1998, Dearborn, MI.

OSHA and Ergonomics, Ergonomics and the Dental Care Worker, American Public Health Association, pgs 443-457, 1998, Washington, DC.

Ergonomic Programs for Health care Organizations, Occupational Medicine: State of the Art Reviews, The Health Care Worker, Vol 12, No. 4, pgs 687-700, October-December 1997, Hanley & Belfus. Inc., Philadelphia, PA.

Ergonomic Efforts in the Retail Food Industry, Proceedings of the Human Factors and Ergonomics Society 37th Annual Meeting, 1993, Vol 2, pgs. 744-748.

The Evaluation of Occupational Ergonomics Programs, Proceedings of the Human Factors and Ergonomics Society 36th Annual Meeting, 1992, Vol 1, pgs. 697-701, Santa Monica, CA.

Precautionary Information for Swimming Pools and Spas: Consumer Preference and Understanding, Report to the National Swimming Pool Foundation, 1986

Material Handling Equipment Alternatives for Light Assembly Operations, Industrial Engineering, April 1985, vol 17, No 4, pgs. 68-73, Norcross, GA.