

**TIES 1999
Industry Projects Summary**

Industry Site	Summary Project Objectives
Advanced Assembly Automation	Develop and document a checklist system to be internally across product design, development, engineering, and production to ensure communication, effective problem identification and resolution, and efficient processing through the product life cycle.
BFGoodrich Aerospace	Evaluate current safety and environmental standards and procedures to determine improvements and changes required to upgrade to OSHA's revised Voluntary Protection Program (VPP). Interview employees and work with the labor management safety committee. Develop the documentation and data necessary for submitting the VPP package.
Dave Knapp Ford	
Dayton Aviation Heritage Commission	Develop curriculum-based educational programs for the national historical park targeted at history, aviation technology, and language arts for grades K-12. Emphasize hands-on and interactive learning experiences. This involved surveying current educational programs offered at park sites, and performing a gap analysis in light of curriculum and proficiency test requirements. Determine development and operating costs for designed programs, and accompanying resource needs. Define an implementation plan for initiating programs.
Dayton Aviation Heritage Commission	Develop and document a proposal for a 2-week cultural reenactment program of events to occur during the Centennial Expo Celebration in July 2003. Conduct an extensive historical review of the 1900-1905 era in West Dayton focusing on four major areas: employment and work activities, home life, school life, and recreation.
Dayton Power & Light	<ol style="list-style-type: none"> 1. Develop an assessment instrument to be administered to employees upon completion of safety commitment training and study material. 2. Study OSHA's Powered Industrial Truck (forklift) regulation and develop and document specific standards for re-certification within DP&L Service Operations' forklift training program. 3. Evaluate DP&L Service Operations' compliance to OSHA and ANSI standards for safety footwear. Research and develop a recommendation about available safety shoes and their cost, and the relevance to DP&L's prescribed employee dollar allotment.
Dayton Precision Punch	Work with the company's inventory control system to perform value and cost analysis aligned with the current manufacturing operations and workstation coding system.
Greater Dayton Area Hospital Association (GDAHA)	Develop an injury prevention curriculum program in the areas of vehicular safety and brain and spinal cord injuries for middle school students linked to proficiency test competencies. Develop a plan for in-services to disseminate the designed curriculum to area teachers. Design a draft of a web page on injury prevention. Design a "Travel Kit" for schools and student groups for the bike safety educational program.
Hamilton Motors	

Improved Solutions for Urban Systems (ISUS)	Work on the construction and renovation of an 8-unit apartment building in the local area: plumbing, structural, electrical, finishing, furnishing, hardscaping. Assist in the renovation of an office suite in a like manner.
Lexis-Nexis	<ol style="list-style-type: none"> 1. Assist in the development of a web-based problem management system. Develop informational material promoting system training, and guidelines for ensuring that the designed system is “user-friendly”. 2. Develop an internal on-line help system for a web application.
Miami Valley Tech Prep Consortium	Develop the content for a Tech Prep web site aimed at middle school students, focusing on the Consortium’s nine existing Tech Prep programs of study. Site information will include program descriptions, career opportunities, employability skills, and current expected salary ranges. Include one local business for each program as a potential employer.
Mutual Tool & Die, Inc.	<ol style="list-style-type: none"> 1. Market Research: Research six major industry classifications, and identify potential domestic customers, meeting specific criteria such as minimum annual revenues. Identify general company information, and complete head procurement contacts. 2. Research Mutual’s current top 20 customers and identify every division within, with product specialty and contact information. 3. Create a database to contain information gathered from research.
NCR Corporation – Financial Solutions Group	Learn the SLIM (Software Life Cycle Management) software project estimation tool to develop the optimum project plan for a given set of circumstances for two projects. Study delivery date probabilities, resource scheduling impacts, project cost effects, defect rate, and reliability expectations.
Palmer Plastics	Assist in the evaluation of an employee training response survey. Evaluate the effectiveness of a training tracking software program called “Easy Tracker”. Work to implement and enhance company’s training tracking methodology.
Paramount Kings Island	Develop and enhance job descriptions documented by Human Resources in 16 given areas in the park. This required study of existing PKI descriptions, and affiliated parks nationwide, and observation and interview of workers at PKI.
Scitex Digital Printing, Inc.	<ol style="list-style-type: none"> 1. Define requirements for an internal help desk system and internal change management procedures for the information systems department. 2. Define and design the requirements, layout and content of an intranet site for employee expense reports, time cards, and systems requests.
The Antioch Co.	
World Color	Develop recommendations to improve communication among English- and non-English-speaking employees. Create a new employee bindery orientation guidebook including facility information, attendance policy, safety issues, teamwork expectations, and work guidelines.
Wright Patterson Air Force Base Education Outreach Office	Develop a complimentary educational program for elementary level educators and students based on an existing program for middle and high school levels. The program is intended to introduce the teachers and students to the use of scanning electron microscopy in research.