

Laura Ducray

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BACKGROUND Talented math, chemistry and process control systems instructor/developer with over thirty years of experience. Demonstrated excellence in teaching at the university level for twelve years. Experience teaching algebra, geometry, trigonometry, precalculus, chemistry, statistics, statistical process control, SPSS and process control systems implementation and operations. Proven strengths in:

SUMMARY

- Instructional Analysis, Design and Development
- Interpersonal Communication
- Technical Training
- Project Management
- Leadership
- Software Development

TEACHING EXPERIENCE

Pennsylvania State University, Abington, PA

**September
2015-
Present**

Math (Statistics and College Algebra) Instructor for Continuing Education Department

- Successfully communicates Statistics and College Algebra course materials to nursing students.
- Develops and instructs Statistics lab materials using Microsoft Excel.

Arcadia University, Glenside, PA

**2011-
Present**

Math (Statistics) Instructor (17 semesters experience)

- Received complement of being an amazing instructor from Mathematics & Computer Science Department Chair.
- Clearly explains Statistics course material and establishes comfortable atmosphere for psychology, sociology, biology, criminal justice and business students.
- Provides intuitive responses to students' questions.
- Enhances Statistics course materials by using Blackboard and Canvas to support students' learning.
- Displays strong desire to help others succeed. Tutors students outside of classroom.
- Displays clear command of subject matter by easily using different examples for each area of course material.

Software (SPSS) Instructor (10 semesters experience)

- Successfully communicates SPSS software implementation.
- Clearly explains Statistics concepts using SPSS software examples.
- Updated course material from paper-based to electronic (Blackboard and Canvas) assignments.
- Developed instructional objectives for SPSS course manual.

Holy Family University, Philadelphia, PA

2010-2013

Math Instructor (6 semester's experience)

- Clearly explained Statistics, Algebra, Trigonometry, Geometry and Contemporary math course material and establishes comfortable atmosphere for nursing, biology, psychology and math education students.

Manor College, Jenkintown, PA

**2008-2011
and 2014-
2015**

Statistics (14 semester's Experience,) Chemistry (5 semester's experience,) Algebra & Trigonometry (1 semester experience), and Precalculus (1 semester) Instructor

- Received numerous complements from students and department head as excellent teacher and an asset to Manor College.
- Cooperated with Math and Chemistry Departments' Coordinators in designing, developing and revising course material.
- Enhanced Statistics and Chemistry courses by using WebStudy to support students' learning.
- Engaged in assessment of learning outcomes and demonstrates the use of the results of these assessments in course planning.

HONEYWELL, INC., INDUSTRIAL CONTROLS DIVISION, Ft. Washington, PA

1988-2002

Instructor

- Communicated rapidly-changing product's functions to internal and external customers by quickly learning product's new operations and delivering over 15 Honeywell Total Distributed Control System (TDC3000) courses.
- Received compliments from both students and peers for outstanding classroom instruction. First-Runner Up for Honeywell's George Blue Training Award.

PROFESSIONAL EXPERIENCE

STATISTICS CONSULTANT AND TUTOR

**2013-
present**

- Perform statistical calculations using SPSS software for doctoral candidates. Tutor MBA statistic students using MS Excel.

CRAFTBUILT CONSTRUCTION, INC., Willow Grove, PA

2002-2012

Business Partner

- Established and maintains relationship with business partner and accountant in support of daily accounting activities.

INDEPENDENT INSTRUCTIONAL DESIGN CONSULTANT

2003

- Standardized instruction to improve efficiency and effectiveness of training materials for Abington Township Police Department, Abington, PA by designing and developing Support Police Immediate Response Intervention Team (SPIRIT) Training Manual.

HONEYWELL, INC., INDUSTRIAL CONTROLS DIVISION, Ft. Washington, PA

1988-2002

Senior Principal Engineer/Performance Support Consultant

2001-2002

- Convinced Honeywell engineering department management to conduct a department needs analysis in response to a request for a training plan. Uncovered causes for performance gaps by conducting needs analysis and recommended performance improvement interventions.
- Reduced risk for losing key product information by managing the activities of 6 engineers to develop and execute a plan to transition key product knowledge.

Project Manager/Lead Instructional Designer

1999-2001

Successfully applied project management practices in the management of Honeywell online and computer-based training development:

- Developed concise work plans and schedules, quickly determined scope of activities identified work tasks, and established milestones towards completion.
- Established and maintained relationships with managers/leaders from other departments by maintaining a high communication level in support of quick implementation.
- Produced on schedule computer-based training course using Authorware authoring tool by managing 4 training/software developers, located in 3 different locations. Overcame issues of distance.
- Produced on schedule 3 online training courses using Honeywell's new course development tool by managing 4 training developers. Motivated training developers to design online delivery mechanism. Improved the usability of online delivery mechanism by testing and providing feedback to software developers.

Directed the activities of instructional designers in the development of Honeywell online and computer-based training materials:

- Improved customer satisfaction by performing needs assessment and designing computer-based training course for pharmaceutical and consumer-packaged goods manufacturers.
- Added value to Honeywell courseware by driving the implementation of multimedia technologies. Developed storyboards and established a consistent approach on when and how to use animations and interactive demonstrations within the context of training.
- Guaranteed quality instructional design by directing the activities of Honeywell training developers on how to effectively and efficiently create quality training course materials within online training environment. Provided coaching and feedback to training developers.

Independent Instructional Design Consultant

1997-1998

- Improved the usability of TotalPlant Solution (TPS) PlantScape distributed process control system by developing PlantScape Quick-Start Guide and Tutorial.

Lead Instructional Designer

1996-1997

- Increased customer satisfaction by leading the PlantScape information development team to analyze customer needs and design documentation and training materials.
- Improved product usability by designing and developing performance-based online documentation and online help; reduced development time by re-purposing performance-based documentation to develop computer-based and traditional training deliverables.

Instructor/Instructional Designer

1988-1996

- Designed and developed on schedule 40-hour Boiler Control course for Saudi Arabian Oil Company by overcoming issues of distance and cultural differences and successfully working with limited time to interviewed subject-matter experts to access boiler technical information; received a number of compliments from Honeywell Program Manager for outstanding efforts.
- Studied statistical process control to design and develop Honeywell's statistical process control courses.

AIR PRODUCTS & CHEMICALS, INC., Allentown, PA

1999

Independent Instructional Design Consultant

Designed and developed a 4-hour Hydrogen Plant Overview course and an 8-hour Reading Piping and Instrumentation Diagrams course to be used by Air Products and Chemicals' plant operators, managers, engineers and other staff members; interviewed and worked closely with Air Products and Chemicals' subject-matter experts.

WESTINGHOUSE NUCLEAR SERVICES INTEGRATION DIVISION, Pittsburgh, PA

1984-1988

Software Engineer

Designed, developed, integrated and tested real-time nuclear power plant training simulator software with emphasis on mathematical modeling and simulation graphics development; Designed and implemented interactive graphics displays and man-machine interface systems.

EDUCATION

Pennsylvania State University, Great Valley, PA, M.Ed., Instructional Systems

Grove City College, Grove City, PA, B.S., Chemical Engineering

COMPUTER SKILLS

Platforms: Unix, Windows 95/98/2000/NT/XP/2007; Microsoft Word, Microsoft Power Point, Microsoft Excel, Microsoft Project, Microsoft Access, HTML Transit, Lotus Notes, Honeywell TDC 3000 and PlantScape Distributed Control Systems, Blackboard, Some SPSS

Languages: Assembly, BASIC, Cobol, FORTRAN, Honeywell's Control Language, some HTML, Paint Shop Pro

Authoring Tools: Authorware, Toolbook II, Trainersoft, WebStudy, Blackboard, Canvas

Statistics Software: SPSS