Marta Gruesbeck

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Profile

- Experienced manager in industrial, military, and academic environments
- Self-motivated, responsible, good communicator, team leader

Education

- Master of Engineering, Engineering Systems, University of Virginia
- Bachelor of Science, Aeronautical and Astronautical Engineering, Purdue University

Professional Summary

Adjunct Faculty - Sinclair Community College, Dayton, Ohio (1992-present)

- Taught most courses offered in the Physics and Math Departments
- Received Achievement Award from the Engineering Technology Division
- Developed original material for the Transformations Program
- Team member on National Science Foundation grant for the National Center of Excellence/Advanced Manufacturing Education. Wrote, edited and class-room tested new materials for collaborative methods for teaching engineering students

Consultant - Learning with Math Machines, Inc., Dayton, Ohio (2005-present)

- Provide assistance with developing new math machines, software-based activities, and classroom testing of materials
- Presenter at workshops and seminars for college and high school faculty

Engineering Manager - DaySys, Inc., Dayton, Ohio (2000-2006)

- Product Affordability and Realization Testbed (PART) Facility, Wright-Patterson Air Force Base, Air Force Research Laboratory/Materials and Manufacturing Directorate (AFRL/MLMT). The PART Facility was developed to identify, assess, and demonstrate emerging technologies to reduce time, cost, and risk in manufacturing advanced weapons systems. Emphasis was placed on facilitating communication and collaborative engineering earlier in the life cycle, as well as innovative uses of commercially available software and hardware.
- Programs supported included the Predator, the X-45A, Diminishing Manufacturing Sources and Material Shortages (DMSMS), hearing protection for Navy aircraft carrier crews, the Air Force Industrial Database, and the Large Aircraft Infrared Countermeasures
- Responsible for management of all engineering projects, including staffing, scheduling, and budget.
- Worked directly with the President on business development, including marketing, presentations, writing proposals, and negotiating teaming agreements
- Managed over a million dollars in Air Force contracts

Human Resource Development Director - Crossroads Tubular Manufacturing, Inc., Dayton, Ohio (1997-1998)

- Worked directly for the President on all corporate-wide projects
- Created assessment and training packages for employees
- Facilitated OSHA, EPA, and sexual harassment training
- In second year, added Human Resource function including new employee orientation, insurance and Workers Compensation
- Negotiated a new TPA insurance contract with improved benefits for employees
- Assisted with plant layouts for improved efficiency and company relocation

- Coordinated move to a new facility

Physics Department Head (Acting) - Gadsden State Community College, Gadsden, Alabama (1991-1992)

- Reported to the Dean of Liberal Arts and Sciences
- Inventoried and organized lab and lab equipment
- Taught all Physics classes offered

Physics Department Head - Edison State Community College, Piqua, Ohio (1985-1987)

- Reported to the Dean of Math, Engineering and Physics
- Inventoried, organized, maintained, and purchased lab equipment
- Supervised federal work-study students and adjunct faculty
- Advisor to over 60 Engineering Transfer students
- Chair, Admissions & Academic Standards. Committee Member: Title III Evaluation, College-Wide Activities, Quarter/Semester System Evaluation, Phase IV Science Lab, and Speaker's Bureau. Faculty Mentor. Judge, Regional Science Olympiad.

Engineer - AlphaScience Division of ALPHATECH, Dayton, Ohio (1983-1985)

- Project Leader on Air Force Command, Control, Communications, and Intelligence (C^3I) research project
- Battle management and tactical decision-making simulations were applied to NORAD, Air Force Space Command
- Responsible for the SIMCOPE crew station simulator including display design, scenario generation, human factors experimentation, and coordination of hardware and software development

Adjunct Faculty - Edison State Community College (1976-1985)

- Developed a new course for the Industrial Management Department later used as the basis for corporate in-house training course
- Taught a variety of courses in the Math, Physics and Engineering Division

Publications

- “Aircraft Motion and Passenger Comfort," NASA CR2612, March 1976, Gruesbeck and Sullivan
- "Concepts for Studying Simulated Command Decisions," Chubb and Gruesbeck. National Human Factors Society, Norfolk, Virginia, October 14, 1983
- "Position, Velocity and Acceleration" and "Forces and Their Effects" teaching modules developed under a grant from the National Science Foundation, 1995-1996. (Co-author)
- “Precision, Accuracy, and Tolerance” module, National Science Foundation, 1997-1998. (Co-author)
- “Professional Development” module, National Science Foundation, 1998. (External Editor)
- “World Class Manufacturing” module, National Science Foundation, 1998. (External Editor)

Clearance

Secret (active through September 2006)

Languages

Moderately fluent in French, some ability in Russian

Member

American Association of University Professors

Ohio Math Association of Two Year Colleges