

John W. Wheeler

U.S. Army Materiel Systems Analysis Activity
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PERSONAL GOAL

I have worked throughout my career to make computers available and effective tools. Before returning to formal educational settings, I studied formal models of computation, programming languages, operating systems, database design, and compiler construction. I also taught programming languages to co-workers, assisted system administrators in installing and maintaining computing equipment, designed and developed several office database systems, configured organizational web servers, and shared system administrator duties for office networks. My personal goal in pursuing a PhD in computer science is to be better enabled to contribute directly to the advancement of the field through work in research or education.

EDUCATION

3/02 M.S. Computer Science, Nova Southeastern University, Ft. Lauderdale, FL
5/78 B.S. Electrical Engineering, University of Iowa, Iowa City, IA

RESEARCH INTERESTS

Automated Reasoning, Data Mining, Optimization and Modeling and Simulation

EMPLOYMENT

1989 – *Electronics Engineer, U.S. Army Materiel Systems Analysis Activity, Rock Island, Illinois Formerly U.S. Army Industrial Engineering Activity*

In this organization, I have held several positions over the four overlapping periods.

2000 – *Software Developer, Combat Support Analysis Division, Artillery Team*

Developed and maintained computer models of Army artillery effectiveness including improving existing munitions effectiveness algorithms and developing user interfaces. Performed verification and validation of developed programs.

1999 – 2002 *Electronic Engineer, Army Product Data Management Team*

Working with other team members, I organized and lead an Army effort to establish a unified product data management interface to industry.

1992 – 1999 *Lead Production Engineer, Close Combat Tactical Trainer Program.*

Prepared and negotiated a multiyear, interagency agreement for production engineering support of the Close Combat Tactical Trainer Program. Managed all program related production engineering tasks.

1989 – 1993 *Electronics Engineer, U.S. Army Product Engineering Services Office*

Reviewed Army weapon system programs for compliance Department of Defense and Army Production Readiness and Producibility Engineering requirements. Provided findings and recommendations affecting program acquisition decisions for Army systems including: the Comanche helicopter, the Hellfire Optimized Missile system, the Brilliant Anti-Tank Submunition, and the Javelin Missile System.

1984 – 1989 *General Engineer, U.S. Army Research and Development Engineering Center, Rock Island, IL*

Provided engineering support and configuration management services for armored training devices, including the Conduct of Fire Trainer, a computer simulation precision tank gunnery trainer.

Developed work statements and acted as contracting officer's technical representative during three major software updates for the Conduct of Fire Trainer.

1981 – 1984 Chief Engineer, Swen Sonic Corporation, Davenport, IA

Provided engineering, quality assurance, and product service needs for a start up company producing industrial ultrasonic cleaning systems. Established the company configuration control and quality control systems and designed custom ultrasonic cleaning applications.

1978 – 1981 Electronic Engineer, Instruments and Life Support Division, Bendix Corporation

Developed software programs and interface electronics implementing an automated data acquisition system monitoring experimental apparatus. Provided production engineering support for aviation instruments and electrical medical equipment. Taught company internal courses on the FORTRAN programming language and the use of CompuVision computer aided drafting system.

1969 – 1975 Electronic Technician, Calibration Specialist, U.S. Navy

PROFESSIONAL ASSOCIATION MEMBERSHIPS

Institute of Electrical and Electronic Engineers Computer Society
Association of Computing Machinery

AWARDS AND HONORS

Army Achievement Award for Civilian Service for my work with the Product Data Management Team, 5/02

Certified Department of Defense Acquisition Professional: Systems Planning, Research Development and Engineering III, 12/94