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Experience

- Group Leader of Scientific Software Engineering (HPC-1) – a LANL-internal-contracting, software development organization emphasizing both product and process. Emphasis in developing innovative, timely, high-quality software solutions to customer's problems through formal software engineering (SE) practices. Led initiatives and pushed group to better SE practices.
- SEI Certified PSP (Personal Software Process) Developer, Authorized PSP Instructor, Provisional TSP (Team Software Process) Coach.
- Change of station at DOE in Germantown, MD working in Defense Programs: Tool development, analysis, and disposition of nuclear weapons and materials.
- Member of a development team of an in-house discrete-event simulation package that dealt with nuclear materials and issues such as maintaining mass balances
- Led a DOE Enterprise Information Modeling project.
- Developed agent-based models and tools and genetic programming and algorithm applications. Developed and analysis tool showing the effects of different rebuild options on weapon aging. This work resulted in better scheduling and analysis of stockpile aging and rebuild options.
- Performed modeling, analysis, and simulation in problem domains such as manufacturing, information, economics, agriculture, and banking using commercial tools.
- Member of a team that developed a DOE complex wide secure network. Specific responsibilities had a network and security focus: encryption and database (relational). Also developed a database (object-oriented) to help manage the network.
- Led CAD/CAM (Computer Aided Design & Manufacturing) development and acquisition efforts. Included efforts in Design, NC Machining, and custom applications for machining high explosives.

Employment

Los Alamos National Laboratory – Group Leader, Deputy Group Leader, Technical Staff Member; Los Alamos, NM (Included a temporary assignment to the DOE, Germantown, MD).

Center for Adaptive Systems Applications – Director of Software Development, Senior Scientist; Los Alamos, NM.

Digital Equipment Corporation – Consultant, Los Alamos, NM.

Naval Weapons Center – Cooperative Education Student, China Lake, CA.

Education

M.S. in Computer Science from Rensselaer Polytechnic Institute, Troy, NY, May 1985. Also worked as a Research Assistant.

B.S. in Design Engineering (CAD/CAM) from Brigham Young University, Provo, UT, April 1980. Also worked as a Teaching Assistant.

Miscellaneous

DOE Q clearance. Held a DoD Secret clearance. Second language: Spanish.