

William C Bulko
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SUMMARY:

Experienced teacher at the university and industry level. Skilled leader of large teams and projects distributed worldwide, with over 20 years of management experience. Program and project manager with PMI certification training. Strong financial management background, managing budgets of over \$100M.

EDUCATION:

- Ph.D. in Computer Science, University of Texas at Austin, 1989.
- M.S. in Computer Science, University of Texas at Austin, 1988.
- B.S in Mathematics, University of Texas at El Paso, 1981. Magna Cum Laude, Top Ten Senior.

TEACHING EXPERIENCE:

- 08/2014 – current** **St. Edward’s University. Visiting Professor of Computer Science.** Taught four sections of Computer Science classes per semester. Created own lecture materials, tests, and homework assignments. Maintained office hours with students.
- 08/1984 – 12/1984** **Southwest Texas State University. Part-Time Lecturer, Department of Computer Science.** Taught two sections of freshman-level Computer Science classes per semester. Created own lecture materials, tests, and homework assignments. Maintained office hours with students.
- 05/1984 – 08/1984** **University of Texas at Austin. Lab Assistant, Workshop for Texas High School Teachers.** Assisted in the creation and deployment of a workshop to teach Texas high school teachers how to teach computer science for the first time. Wrote software and managed lab hardware for the class, and coached teachers during the lab.
- 08/1983 – 05/1984** **University of Texas at Austin. Assistant Instructor I and II.** Taught Computer Science Concepts, a core course for CS majors, to about 600 students. Created own lecture materials, tests, and homework assignments. Maintained office hours with students. Received an award from the Computer Science student organization for Teaching Excellence.
- 05/1983 – 08/1983** **University of Texas at Austin. Lab Assistant, Self-Paced Computer Science Lab.** Created materials for a self-paced computer science class offered by UT. Graded exams and maintained office hours for students.
- 08/1981 – 08/1983** **University of Texas at Austin. Teaching Assistant I and II.** Taught four lab sessions per week of 25-30 students in support of freshman-level Computer Science classes. Reviewed and clarified materials covered in main class sessions, and discussed homework assignments and tests. Created own materials, exercises, and test reviews. Managed all grades for supervising professors. Maintained

office hours with students. Substituted for professor in class lectures on demand.

08/1979 – 05/1981

University of Texas at El Paso. Undergraduate Teaching Assistant. This was a new position created by the University specifically for me: when the University first created the new Department of Computer Science, there were no graduate students to assist the instructors, but I was a very advanced student of CS even as a junior math major. Held two lab sessions per week in support of freshman-level Computer Science classes. Reviewed and clarified materials covered in main class sessions, and discussed homework assignments and tests. Created own materials, exercises, and test reviews. Managed all grades for supervising professors. Maintained office hours with students. Substituted for professor in class lectures on demand as an undergraduate.

TECHNICAL SKILLS / EXPERTISE:

- **Programming Languages:** Java, C, Pascal, FORTRAN, Lisp, COBOL, PL1, Basic, Python.
- **Operating Systems:** UNIX (AIX, Linux, HP-UX, Solaris), Windows, iOS.
- **Other:** MS Office (Excel, Powerpoint, Word), Lotus SmartSuite (WordPro, 123, Freelance), Lotus Symphony, Lotus Notes

PROFESSIONAL EXPERIENCE:

1989 – 2013: IBM Corporation, Austin, Texas

10/2012 – 07/2013

Program Manager, Technical Computing, PureSystems & Modular Software Development. Responsible for the business analytics and technical computing line of products under the PureSystems brand. Responsible for driving the strategy of Open Source Hadoop for IBM. Program Manager for the PowerLinux Big Data Solution project, a solution consisting of a hardware offering, external storage, PowerLinux, and a software stack centered on Hadoop. Drove interlocks across program management, multiple development teams, marketing, ISV, and Lab Services. Responsible for executive updates.

04/2010 - 10/2012

Operations Manager, Tivoli SPA and Network Management. Responsible for managing a budget of over \$100M. Managed all worldwide budget and staffing activities, including planning and forecasting the expense and travel budgets, and documentation and tracking of headcount, travel, project costing/staffing, software license agreements, and outsource contracts. Managed the Italy, Poland, Ireland, and Malaysia lab expense budgets, which make up a significant part of the organization. Responsible for presenting regular spending reports and operational and financial metrics to the management team.

10/2004 - 04/2010

Third-Line Manager, ISC Configuration Management. Responsible for the content of all sales and manufacturing configurators used by IBM to create and fulfill orders. Managed teams responsible for product modeling and testing of configurators and configurator support tools. Drove and delivered support for the Xccelerator project, a significant multi-year reengineering effort in support of fulfillment for the System x brand.

02/2004 - 10/2004

LTC Plan Management Program Manager. Responsible for the plan and budget for the Linux Technology Center. Responsible for the creation and deployment of formal processes for plan requirements, content, prioritization, and change control.

09/2003 - 02/2004

Program Director, Linux on Power Development Strategy. Analyzed the

processes, resources, and strategy used on Linux on Power projects at several IBM locations to find ways to improve communications, synchronize their activities (including management, planning, development, test, performance, and project management), and improve synergy between the groups.

04/2002 - 09/2003

Executive Assistant. Assistant to a senior Vice President of IBM.

Responsibilities included preparation for key technical meetings, managing communications in and out of the principal's office, participating in customer visits and accounts, and providing ad hoc support for all development projects within the principal's scope. In addition, since the principal was the Senior Location Executive (SLE) for IBM Austin and the State Senior Executive (SSE) for the State of Texas, responsibilities also included managing and serving as the primary focal point for all SLE / SSE activities, including organizing community service events; coordinating visits from customers, other IBM executives, and outside agencies; and serving as the interface to Site Communications, Security, Legal, and Human Resources.

06/2001 - 04/2002

Second-Line Manager, UNIX Plan Management. Responsible for plan and budget, product and release management, quality, service, distribution, software build, translation, packaging and installation, competitive analysis, Java development, and vendor management for the AIX development organization. Implemented a new planning process focused more on strategic planning. Made changes in processes to improve quality and reduce defect escapes to the field.

07/1998 - 06/2001

Second-Line Manager, UNIX Product Test. Managed a team of over 100 employees worldwide that performed pre-GA system testing of AIX and Linux on pSeries hardware, HW/SW compatibility testing, regression testing of software fixes, and application stack testing.

12/1992 - 07/1998

First-line Manager. (Multiple positions within IBM.)

07/1989 - 12/1992

Software Developer.

PUBLICATIONS:

- “Right Brain, Left Brain: Challenges in Designing a Successful Journalism and Computer Science Collaboration.” Jena Heath, William Bulko. To be published in the *Proceedings from the Fall National College Media Convention*, October 2015.
- “Method of Supply Chain Adjustment Following a Disaster.” David Kumhyr, Glenn Johnson, Yvonne Young, Jacobo Vargas, William Bulko. IP.com Disclosure, IPCOM000212366D, 08-Nov-2011. Patent pending.
- “Use of ARP Cache data to Discover and Report Malfunctioning Systems.” David Kumhyr, Glenn Johnson, Yvonne Young, Jacobo Vargas, William Bulko. IP.com Disclosure, IPCOM000192823D, 03-Feb-2010. Patent pending.
- “Method to Use Baseboard Management Controller to Detect Alternation of Electronic Device.” David Kumhyr, Glenn Johnson, Yvonne Young, Jacobo Vargas, William Bulko. IP.com Disclosure, IPCOM000184091D, 10-Jun-2009. Patent pending.
- “Time Marking Ink Stick.” David Kumhyr, Glenn Johnson, Yvonne Young, Jacobo Vargas, William Bulko. IP.com Disclosure, IPCOM000202182D, 07-Dec-2010.
- “Diagrams and Text as Computer Input.” *Journal of Visual Languages and Computing*, Vol. 4, No. 2, June 1993.

- “Uses of Diagrams in Solving Physics Problems.” *Proceedings of the AAAI Spring Symposium on Reasoning with Diagrammatic Representations*, March 1992.
- “ISDN: What It Can Do Today.” IBM Personal Systems Developer Magazine, Fall 1991. Reprinted in: *OS/2 2.X Notebook: The Best of IBM Personal Systems Developer Magazine*, ed. Dick Conklin. Van Nostrand Reinhold, 1993.
- “Representing Domain-Dependent Data in an Object-Oriented System.” IBM Technical Disclosure Bulletin, AT8-91-0266, June 1991.
- “Application Interface to Objects and Methods on Objects.” IBM Technical Disclosure Bulletin, AT8-91-0265, June 1991.
- “Implementing Operator Overloading to Create Generic Methods.” IBM Technical Disclosure Bulletin, AT8-91-0264, June 1991.
- “Programmable Configuration.” IBM Technical Disclosure Bulletin, AT8-91-0263, June 1991.
- “Verification and Access Control in an Object-Oriented System.” IBM Technical Disclosure Bulletin, AT8-91-0088, March 1991.
- “Graphic APPC Configuration Interface.” IBM Technical Disclosure Bulletin, AT8-90-0399, Jan 1991.
- “Understanding Natural Language with Diagrams.” *Proceedings of the Eighth National Conference on Artificial Intelligence (AAAI-90)*, 1990.
- “Intelligent Context-Sensitive Help.” IBM Technical Disclosure Bulletin, AT8-90-0219, May 1990.
- “TFR Expert System Shell.” IBM Technical Disclosure Bulletin, AT8-90-0138, May 1990.
- “Understanding Coreference in a System for Solving Physics Word Problems.” Technical Report AI89-102, University of Texas at Austin, May 1989.
- “Understanding Text with an Accompanying Diagram.” *Proceedings of the First International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-88)*, June 1988. Nominated for the 1988 MCC Award for Excellence in Computer Science.

PATENTS

- “Electromagnetic Profiling to Validate Electronic Device Authenticity.” Kumhyr, David B. Johnson, Glenn D. Bulko, William C. Vargas, Jacobo A. Young, Yvonne M. (March 17, 2009). Patent number 8242793.

OTHER:

- Member of journal review board, Applied Intelligence, 1993 to present
- Member of Association for Computing Machinery, 1989 to present
- Completed PMI Certification Training, 1996.
- Session chair: “Intelligent Databases”, *Seventh International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-94)*, May-June 1994.
- Member of review committee, *Seventh International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-94)*, May-June 1994.