

ROBERT F.D. STANSFIELD, Ph.D, MBA

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SUMMARY

An accomplished business professional with a background in experimental science and advanced degrees in science and in business, I help organizations save time and money. I design and build innovative solutions, and lead international teams, using information technologies to increase productivity, enhance collaboration, and improve the quality of data and decisions. My international experience and dual competencies in business and in technology make me uniquely qualified to improve collaboration between functions and/or different cultures within organizations.

Qualities: Achievement oriented • Analytical • Articulate • Attentive to detail • Collaborative • Creative • Facilitator • Highly organized • Lifelong learner • Problem solver • Strategic • Systems-minded • Dual citizenship USA/UK

PROFESSIONAL EXPERTISE

LEADERSHIP & CHANGE MANAGEMENT

- Co-founded the nonprofit corporation Illustrative Mathematics and implemented the technology, systems and processes for web development, accounting, payroll, employee benefits and HR administration. Facilitated growth over three years from 0 to 26 employees in 19 states and 2 countries and from \$2 M to \$5 M in annual revenues.
- Chaired the Cross Pharma HPC group – an industry forum for sharing non-proprietary information and best practices for High Performance Computing in the Life Sciences.
- Pioneered Agile development methods for end-users and software engineers resulting in faster development cycles and increased end-user satisfaction with products. Initially for project management in Pharmaceutical R&D, and subsequently in a nonprofit startup. Achieved by facilitating quarterly workshops and implementing Agile tools and processes.

FINANCE & ACCOUNTING

- Developed and managed budgets. Performed daily accounting and monthly financial reporting to management and to the board. As CFO and COO of a nonprofit organization I oversaw annual external audits of our financial statements and Form 990 returns to the IRS.

TEACHING & VOLUNTEERING

- Tutored first generation low income college students under a grant-funded program with the overall goal of community college graduation and transfer to a four-year institution.
- Tutored adult basic literacy as a volunteer with the nonprofit organization Literacy Connects.

TEAM BUILDING

- Created new teams from scratch including hiring, developing and managing people, in France and in the USA. My teams built laboratory systems, implemented chemical and biological databases, and provided workflow tools and high performance computing to researchers in the life sciences who had had no such support previously.
- Directed managers located internationally to lead their teams to define, develop, implement and support information management solutions in support of pharmaceutical drug discovery at 16 sites worldwide.

INFORMATION SYSTEMS

- Led a cross-functional technical workgroup on High Performance Computing (HPC) which developed long-term technical strategies for HPC and advised on implementation at the request of senior management.
- Led the development and implementation of a chemical information management system that supported planning for parallel synthesis, as well as the worldwide registration of

libraries, experiments, compounds, and batches. The process and system were implemented at 4 research sites in 3 countries and replaced 5 different legacy systems, resulting in savings of over ten million dollars and a huge increase in the quality of data used in drug discovery.

- Led the investigation into Cloud Computing for Pharmaceutical R&D, resulting in a successful proof-of-concept for on-demand computing using Amazon Web Services.

SCIENTIFIC RESEARCH

- Co-authored 18 scientific papers, 9 scientific communications and 8 conference proceedings.
- Co-responsible for the development of an international service Neutron Diffractometer equipped with a Position Sensitive Detector for protein crystallography. These developments decreased the time taken and increased the resolution (quality) of experimental results for visiting research scientists from all over the world.
- Discovered a simple mathematical formula – a scalar triple product – for the Lorentz correction to Bragg intensities, allowing a completely general correction that is valid for any scan through a general out-of-plane reflection and a corresponding minimization of experimental errors.

LANGUAGES

- Native English, fluent French, some German

WORK HISTORY

PIMA COMMUNITY COLLEGE, Tucson, AZ	
Staff Instructor, Project GRaT	2017 – present
ILLUSTRATIVE MATHEMATICS	
Chief Financial Officer & Chief Operating Officer	2014 – 2017
Chief Information Officer	2012 – 2014
Board Treasurer	2012 – 2017
OPAL CONSULTING LLC, Tucson, AZ	
Principal	2012 – present
SANOFI-AVENTIS, Tucson, AZ then Bridgewater, NJ	
Enterprise Architect & Strategic Business Consultant	2010 – 2012
Director of Scientific Information Systems	2000 – 2009
SELECTIDE INC., Tucson, AZ	
Senior Manager of R&D Information Systems	1996 – 1999
MARION MERRELL DOW RESEARCH INSTITUTE, Strasbourg, France	
Manager of R&D Information Systems	7 years
INSTITUT MAX VON LAUE-PAUL LANGEVIN (ILL), Grenoble, France	
Physicien / Research Scientist	5 years

EDUCATION

UNIVERSITY OF ARIZONA, Eller School of Management, Tucson, AZ

- **MBA**

UNIVERSITY OF BRISTOL, Bristol, England, UK

- **PhD**
- **B.Sc. Chemistry**

AWARDS

- Identified as a “future leader” in 2003 and awarded with executive training for one week at Wharton business school in Philadelphia, PA and one week at INSEAD, France.