David Ing

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Data Scientist | Systems Architect | Management Consultant |
Open Innovation Strategist | Technology Executive

Representative Accomplishments

Cofounded multinational small business. Won $1M+ contract in 6 months
- Targeted BPM in healthcare. Hired and trained team for disciplined agile delivery

Lead consultant on engagements with corporations, governments, not-for-profits
- Methodology exponent on billable client services, proposal through delivery
- Transforming business + IT with Fortune 500 scale enterprises, USA + Canada
- Strategy, business process, IT architecture, organizational design, governance

Accelerated deals @ >$500K. Industry-specific business cases + solution architectures
- Replicable business value assessment technique. Endorsed by C-suite executives

Published book on new theories on open innovation and open sourcing behavior
- Launched in 2017-2018. Seven case studies of IBM, over ten years of history

Inaugurated alliance partnerships across commercial, academic and public sector
- Pioneered centre of excellence on marketing information technologies
- Established systems science working group. Across engineering + theoreticians
- Convening monthly systems thinking meetup in Toronto. Now in 6th year

Authored new graduate-level academic programs and courses internationally
- Initiated new programs in marketing science, service science, pattern language
- Lectured at universities in Finland, Japan, China, UK, Austria, USA, Canada

Skills and Proficiencies

Expert in presentation and facilitation. Audiences as professionals or postgraduate
- Press-certified by IBM corporate. Rated most-understandable in Asian conference

Fluent in business strategy, organization design, shareholder value, IT, agile methods
- First-of-a-Kind projects, market development, matrix organization, action research
- Linux (Ubuntu, Manjaro, RHEL), Apache, Websphere, SOA, BPM, DB2, MySQL

Writing, editing and reviewing for journal articles + magazines, blogging + social media
- LibreOffice, MS Office, HTML, CSS, LaTeX, Wordpress, Drupal, Grav, Federated Wiki

Qualitative + quantitative research, deductive and inductive methods, modeling
- Design of inquiring systems, APL, R, Jupyter, Zotero, Eclipse, UML, SysML, OPM

Experience

Instructor, Systemic Design (Understanding Systems)   1Q2020
OCAD University, Strategic Foresight & Innovation   Toronto, Canada
- Lecturer in master's program (part-time, winter session)

Theory-Building Researcher   2014-2019
Tongji University, College of Design and Innovation   Shanghai, PR China
- Data Scientist, Visiting Lecturer in Ph.D. program (1 month per year)

Innovation Strategist, Book Author   Toronto, Canada
- Open Innovation Learning, foreword by IBM Director of Cognitive Opentech

Healthcare EQ, Inc.   2013-2014
Managing Director + Chief Scientist   Toronto, Canada + Kingston, Jamaica
- Cofounder of IBM Business Partner, on BPM in healthcare

International Society for the Systems Sciences   2011-2012
President (pro bono)
- Led 56th annual meeting of professional association. Edited journal special issue

IBM Canada Ltd. (~50% on assignments in USA)   1985-2012
Senior Managing Consultant, Strategy & Change   9 years
- Advised clients in public sector, retail, pharma, high tech, startups
- Consultant on early cohort of IBM market entry, promoted to managing, then senior

Solution Architect, Industry Solutions   6 years
- Presales business value assessments in public sector, media and entertainment

Market Development Specialist, Retail Industry Solutions   5 years
- Created industry demos for graphical analytics product (Xerox PARC → IBM-Apple)

Data Scientist + Business Analyst, IBM Canada Headquarters   3 years
- Predictive modeling of sales, earning excellence award. Econometrics. Stochastics

Education

Ryerson Chang School of Continuing Education   Ontario, Canada   2019-2020
Certificate (part-time), Data Analytics, Big Data, and Predictive Analytics
- Refreshing on Data Science tools + techniques: R, SQL, Machine Learning

Aalto University (née Helsinki University of Technology)   Finland   2003-2020
Doctoral candidate, Department of Industrial Engineering and Management
- Multiparadigm inquiry on open innovation, open sourcing while private sourcing
- Published book as per thesis advisor; new doctoral supervisor assigned

Kellogg School of Management, Northwestern University   Illinois, USA   1980-1982
Master of Management degree in MIS, economics, organizational behaviour
- Dean's list; Executive vice-president, Graduate Management Association

University of Toronto, Trinity College   Ontario, Canada   1976-1980
Bachelor of Commerce degree, concentration in computer science
- Varsity fencing team, gold medal, foil event