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## Overview

I was born in Toronto, Ontario, Canada and graduated with a Bachelor of Fine Art degree in Communications Design in 1979. I spent over 40 years working in the fields of design management, graphic design, visual interaction design, user experience design, web design, software prototyping & design, and data visualization. Today, I am retired and spend my time creating hand-drawn and generative (computer-programmed) artwork.

## Education

Ontario Secondary School Honour Graduation Diploma – Leaside High School, Toronto, 1975  
Bachelor of Fine Arts (Communications Design) – State University of New York, Buffalo, June 1979  
Various Computer Programming and Operating Systems Courses – Honeywell Information Systems, 1982

## Awards and Recognition

While formally trained in Fine Art, I am new to practising it as a profession, so I have no fine art awards, exhibitions, residencies, or grants. However, I have acquired the following industry awards and recognition over the years:

### Speaking Engagements

Strata + Hadoop Big Data Conference (USA) – A Simple, Fast Approach to Analytics for Big Data, 2015  
YOW!2014 Conference (Australia) – Explorations in Interactive Visual Analytics, 2014  
GOTO Conference (Denmark) – Explorations in Interactive Visual Analytics, 2014  
NATO Visualization Workshop (Vancouver) – CARE: Collaborative Analytics Environment, 2011  
CAPCHI (Ottawa) – Sketching User Interfaces, 2011  
Better Software Conference (Toronto) – Business Analysis and Requirements Workshop, 2011  
GOTO Conference (Denmark) – Agile Envisioning: Building It Right the Third Time, 2010  
SIGDOC 2002 (Toronto) – Methodology for the Rapid Development and Delivery of Online Courses, 2002  
Carleton University Psychology Department (Ottawa) – Interface Visual Design Techniques, 1993–2006  
Carleton University Computer Science Department (Ottawa) – Industry Program Advisory Board, 2001  
Design Management Institute Conference (USA) – Multi-Modal User Interfaces, 1998

### Nortel Networks Awards

Nortel Top Talent Awards, 1999-2001  
Award of Excellence Network Management, 1997 and 1994

### Design Patents

Connection manager user interface patent, 2000  
Problem analyser user interface patent, 2000  
Inter-layering system for displaying multi-technology network topologies, 1999  
Visual language for network management user interfaces, 1996

### Print Media Design Awards

Gold Award, Ottawa Ad & Sales, CHEZ “Rock Transit” campaign, 1991  
Gold Award, Ottawa Ad & Sales, Ottawa Roughrider’s “Rough Stuff” campaign, 1991  
Bronze Medal, Int’l New York Advertising Festival, OCEDCO’s “Square Foot” direct-mail campaign, 1991  
Award of Excellence, Society of Technical Communications, Nortel documentation standards, 1990  
Award of Merit, Society of Technical Communications, COMPASS product brochure, 1989  
Award of Excellence, Society of Technical Communications, Nortel DV-1 promotional marketing suite, 1988  
Best of Show, Society of Technical Communications, Nortel DV-1 1987 calendar, 1987  
Award of Merit, Society of Technical Communications, Nortel MS-1 brochure, 1987  
Best of 80’s Award of Merit, Graphic Designer’s Guild of Canada, Nortel DV-1 1986 calendar, 1986

## **Employment History**

### **First Derivatives Labs (formerly Bedarra, Bedarra Research Labs), 2001-2019**

Vice-President of User Experience Design

From 2001, I worked for a private research lab on a range of business start-ups as well as a variety of consulting projects for organizations such as Watchfire, Cognos, Orbitz, IBM, Object Mentor, and the Department of National Defence. Our first venture involved creating an online learning school called online-learning.com that was sold in 2008. Our last venture involved creating a collaborative development environment that allowed users to analyze and visualize billions of data records in seconds. Bedarra Research Labs was sold to First Derivatives plc in 2015. Depending on the project, I provided a range of design, product, and business management expertise as well as specific expertise in visual design, user interface design, software prototyping, and big data visualization.

### **Nortel Networks (Design Interpretive), 1993-2001**

Senior Product Design Manager 1998-2001/Senior User Experience Architect and Designer 1993-1998

From 1998 to 2001, I led a sixty person design team focused on delivering user interface design solutions for Nortel Network's network management products. Activities included strategic planning, program planning, budgeting, process re-engineering, human resource planning, and marketing.

From 1993 to 1998, I designed a range of user interfaces for Nortel's Network Management products. In 1994, I co-invented a common 'look and feel' strategy for the network management portfolio. As part of this strategy, I created and published the first edition of the Preside compiled-client and web-client user interface standards. I hold a variety of design patents related to network management user interface design. In particular, the visual language patent for network topology display was licensed to a third-party vendor in 1997 and has become a defacto industry standard by IBM, Hewlett-Packard, Sycamore, Cisco, and other network management vendors.

### **Object Technology International, 1992-1993**

Senior User Experience Designer

I returned to user experience design for one of my FAB! Design clients. Duties included visual design, user interface design, multi-media design, and software prototyping.

### **FAB! Design, 1988-1992**

Owner

For about four years, I ran an award-winning design consultancy specializing in print-based and computer-based market communications (documentation standards, brochures, annual reports, exhibits, multimedia presentations, videos, speeches, advertising campaigns, corporate identity programs). Clients included Nortel Networks, Object Technology International, Department of Finance, Secretary of State, Department of Multiculturalism, and several advertising agencies in Ottawa.

### **Nortel Networks (Design Interpretive), 1984-1988**

Visual Interaction Designer & Design Manager

In 1984, I was hired as their first visual interaction designer in Canada. Within a year, I was promoted to a working line-management position responsible for the day-to-day operations of a five-person visual design team. The team specialized in designing the visual aspects of human computer user interfaces and print-based communications materials. Management duties included project planning, scheduling, budgeting, HR planning, and marketing. My specific design projects included the M3000 Touchphone user interface, the TOPS/MP Operator user interface, the M1 Meeting Services user interface, Nortel documentation standards, as well as marketing collateral, packaging design and on-product graphics for the Meridian, Norstar, and Fiberworld product families.

### **Honeywell Information Systems, 1980-1984**

Instructor – 1982-1984 / Marketing Specialist – 1980-1982

From 1980 to 1982, I was part of a three-person management team formed to launch a computer programming school called the Honeywell Institute. My responsibilities included developing the market strategy for the school, advertising plan, marketing materials, and marketing events. From 1982 to 1984, Honeywell provided me with formal training in computer operating systems, programming languages, instructional design, and instructional delivery methodologies. During that time, I developed and delivered courses for Honeywell and the Honeywell Institute across Canada and United States.

### **Buffalo Museum of Science, 1979 - 1980**

Art Director

After graduating university, I worked as the museum's art director producing the museum's print collateral (posters, brochures, events calendars, mass mailings, magazines).

**References available upon request**