

Profile:

Constantly on the lookout for new concepts to learn, Nicole is always thinking about new ways to use her knowledge in helping others.

Professional Work Experience:

July 2019 –

Modular Robotics acquired Dexter Industries

Director of Engineering

- Support the family of Dexter Industries products post merger.
- Integrate the Dexter products in the Mod Robotics family.
- Internal training about the Dexter products.

July 2015 – July 2019

Dexter Industries, provider of educational robots

Technical Writer, Software Engineer, Promoted to CTO in 2018.

- Write up tutorials on the products, both Raspberry Pi and Microbit-based.
- Manage scripts, and libraries, move all from Python2 to Python3
- Lead team on the creation of DexterOS, and Giggiebot
- Customer support and customer interaction
- China manufacturing supervision
- Lead team to create Dexter Days, a teacher professional training camp.

2015 - 2018

Kids Code Jeunesse (contractual work)

Workshop designer and animator

- Run various kid-facing programming workshops (website building, Scratch, Raspberry Pi, microbits)
- Champion the integration of microbits in workshops

2015:

Kontenu

- Wordpress security and optimisation

August 2014 – December 2014: (contractual work)

Fabule Fabrication

Technical Writer

- Writing beginner tutorials for Clyde, an Arduino-based hackable lamp
- Copywriting marketing materials
- Website HTML coding for tutorials

2003 – 2018:

Homeschooling parent

- Homeschooling two kids in two languages, French and English, from Kindergarten to grade 12
- Teaching in co-op environment: Robotics, Computer Programming, French as a second language, and Canadian History for middle school and high school

Pre-homeschooling days:

1998 - 2003

Freelancer

(please note that none of these still exist in their original format due to the volatile nature of the Web)

- [Biztrek](#) Partner (Australia).
- Search engine creation **Éditions Sur Scène** (Surscene.qc.ca)(ASP, Access)
- Intranet work for **Fédération des Cégeps**. (ASP, Access, VBScript, IIS 4.0)
- Parental email control for **Zeeks LLC** (www.zeeks.com) (C++, C, ASP, VBscript, MS SQL, Rockliffe Mailsite, IIS 4.0)
- Shopping cart for [AustralianFlowers](#).
- Tools and applets for [Mailsite](#) (Email server)[Rockliffe](#) □ TheForce.net tech lead, and forum administrator.

April 1994 – October 1998

Softimage Inc, (Softimage/Microsoft, Softimage/AVID)

- Software Design Engineer (SDE)
Soft|3D and Sumatra development. Member of the UI team.
(C C++ COM Unix Windows OpenGL).
Group Leader 1995-..
- NT Port team member. Microsoft/Redmond and Montréal.
- Maintenance and dev work on Soft|3D on both Windows and Irix (SGI)

May1991 – April 1994

Virtual Prototypes Inc (now called Presagis) <http://www.presagis.com/>

- User interface specialist.
- Project lead on Stateform Editor 3.1
- Consultation work for VPI's clients on their user interface design.
- Design of highway surveillance system interface. Arizona Department of Transportation, Phoenix, Arizona (1993)
- Invited speaker (undergraduate and graduate levels) on user interface design, École Polytechnique and Université de Montréal.
- Consultation work for IBM Rockville, Maryland, on Air Traffic Control (1991).

Dec 1989- May 1991

La Société Désig Inc.

- Lead programmer for their Hotel Management System, including the bookkeeping software.
- Support hotline.

- Supervision of the translation effort to Spanish, for both software and written documentation. Presentation in Spanish, Tecnotur 90, La Havane, Cuba.

LANGUAGES

French, English, some remnants of Spanish

EDUCATION

Graduate studies, Industrial Engineering, Cognitive Ergonomics
École Polytechnique de Montréal, 1991-1993

Bachelor of Industrial Engineering, software specialization
École Polytechnique de Montréal, 1989

Physics, first year McGill
University, 1984-1985

D.E.C. pure and applied sciences
Collège Jean-de-Brébeuf, 1984

D.E.S. general (high school degree)
Collège Ste Marcelline, 1982