

Profile

I am an industrial designer, industrial design manager, and mechanical designer with over 15 years of experience and strong skills in:

- Design for usability and human factors, especially in medical product development
- Design for manufacturability in high and low-volume production processes
- Mechanical design
- Formgiving
- Parametric CAD modeling (SolidWorks)
- Project management
- Graphic design

Experience

Synaptive Medical January 2015 to present

Staff Industrial Designer

- Promoted from Senior Industrial designer in January 2016
- Developing the Synaptive Guide product, an optically tracked surgical navigation system, including:
 - Custom tracked surgical suction instruments
 - Tracked surgical pointer tools
 - Tracked calibration fixtures
 - A hand-held 3D scanner used for fiducial-free registration
 - Operating room carts
- Interviewed candidates for mechanical design, user interface, and user experience designer positions
- Trained and mentored junior and intermediate staff
- Gained valuable usability experience observing neurosurgical cases first-hand in operating rooms

Hologic Canada July 2012 to January 2015

Group Manager, Industrial Design

- Promoted to Group Manager of Industrial Design with increased responsibilities reporting to Sr. Director of Advanced Product Development and Director of Engineering
- Redesigned Hologic's new Universal Acquisition Work Station and lead engineering team through development, from concept to production
 - Reduced cost and improved usability of current Acquisition Work Station products
- Improved usability and functionality of existing products, including:
 - A hand-held controller for Hologic's Universal Acquisition Work Station and biopsy table
 - A control handle for Hologic's breast biopsy table
 - A painless fabric mammography compression paddle
- Supported Mechanical Design and Engineering teams through cost-reduction projects by designing:
 - Injection molded enclosures
 - Sheet metal structural components
 - Machined components
- Managed and led development teams through injection molded coil enclosure redesign resulting in:
 - Common parts throughout breast MRI product lines
 - Over 90% reduction in part cost

- Provided guidance and subject matter expertise to project partners including:
 - Industrial design, anthropometric, and ergonomic feedback for MacDonald, Dettwiler and Associates cranial caudal breast biopsy device
 - Industrial design input for Qfix supine breast board and MRI coil product
- Improved Sentinelle engineering human factors knowledge by organizing usability and human factors training including a hands-on workshop at University Health Networks Human Factors facility

Hologic Canada August 2010 to June 2012

Industrial Designer, Lead and Manager

- Continued developing products while managing and mentoring a team of industrial designers and engineering interns
- Managed and maintained Sentinelle's SolidWorks system:
 - Improved staff CAD modeling techniques by training new and experienced users in SolidWorks and parametric CAD best practices
 - Supported Engineering by implementing changes (engineering, manufacturing, prototype) using Agile Product Life Cycle Management system
- Improved prototyping and model making capability by managing Sentinelle's mechanical lab; increased lab capability by researching and purchasing tools and machines

Sentinelle Medical November 2006 to August 2010

Industrial Designer

- Hired by Sentinelle founders as one of first five employees
- Added to Sentinelle's product portfolio by developing new breast MRI coil systems, from concept to production, for scanners produced by GE, Siemens, and Toshiba
- Contributed to the success of Sentinelle Medical as it progressed from startup to its ultimate sale to Hologic through:
 - Industrial design
 - Mechanical design and engineering
 - Graphic design
 - User interface design
 - Prototyping and model making
 - Technical publications
 - Product photography
 - Web design
- Updated and improved corporate identity by designing logos, letterhead, business cards, web site, product and promotional brochures, and trade show display graphics

Education

Bachelor of Industrial Design (B.I.D.) With Distinction - Carleton University, Ottawa, Ontario

Skills

- | | |
|---------------|-----------------------|
| ▪ SolidWorks | ▪ KeyShot |
| ▪ Rhinoceros | ▪ Sketching |
| ▪ Illustrator | ▪ Model making |
| ▪ InDesign | ▪ Product photography |
| ▪ Photoshop | ▪ HTML, CSS |