

# NICHOLAS ARMSTRONG

MASC CANDIDATE, COMPUTER ENGINEERING, UNIVERSITY OF WATERLOO  
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(519) 594-1219

## SUMMARY OF QUALIFICATIONS

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- Expert knowledge of application development with Windows Presentation Foundation (WPF) and C#, culminating in two internships spent with the WPF team at Microsoft
- Driven to excel, having independently learned numerous technologies (most recently, LINQ and Python) in order to improve my skills
- A proficient developer and program manager; coded and shipped Microsoft's photoSuru WPF sample
- Excellent leadership and communication abilities, fine-tuned through my experience as a consultant
- Uniquely experienced in multi-touch applications, having developed applications using both the Surface SDK and Windows 7 touch technology
- Extremely adept at technology, having worked on projects using a wide variety of languages (C, C#, XAML, SQL, CSS, Java, Python) and tools (Photoshop, Illustrator, Expression Blend, Visual Studio)

## WORK EXPERIENCE

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### PROGRAM MANAGER (PM) INTERN

SEP 2008 – DEC 2008

MICROSOFT CORPORATION (REDMOND, WASHINGTON)

- Managed the development of a WPF/Windows 7 sample application featuring multi-touch and ribbon integration for the 2008 Microsoft Professional Developer's Conference
- Created developer tools and documentation for photoSuru, the photo subscription sample application I developed in my previous term with Microsoft in preparation for its release
- Surveyed line-of-business (LOB) application frameworks available for WPF as part of an effort to develop a strategy for LOB applications on the Microsoft .NET client platform

### KEY ACHIEVEMENTS

- Provided on-site support for the .NET Corporate VP's keynote demonstration of the WPF/Windows 7 sample to the 6,000 attendees present at PDC 2008
- Drove photoSuru's release to web (with full source code) at [www.photosuru.com](http://www.photosuru.com)

### SOFTWARE DESIGN ENGINEER (SDE) INTERN

JAN 2008 – APR 2008

MICROSOFT CORPORATION (REDMOND, WASHINGTON)

- Developed photoSuru, an occasionally-connected photo viewing application, to demonstrate the highly differentiated experiences developers can create using WPF
- Assisted the WPF test team in testing new features of WPF to identify bugs prior to the release of .NET 3.5 SP1
- Designed and developed 'photoSuru 360°', a version of our existing sample application optimized for the Microsoft Surface to test the adaptability of existing WPF applications by running them on Surface using the Surface SDK

### KEY ACHIEVEMENTS

- Primary developer on photoSuru, a developer sample released by Microsoft in December 2008.

**SOFTWARE CONSULTANT**  
SYSTEMGROUP, INC. (MISSISSAUGA, ONTARIO)

AUG 2006 – AUG 2007

- Responsible for developing various solution components using a range of Microsoft technologies in cooperation with clients and other consultants
- Lead the development of a public website refresh for a not-for-profit organization by researching content management systems that would integrate with their existing infrastructure, developing the site based on their specifications, and deploying the website using DotNetNuke
- Supported the sales team by developing prototypes for potential clients using ASP.NET and CSS

**KEY ACHIEVEMENTS**

- Designed the user interface for a wealth management system developed for a large Ontario credit union

**ADDITIONAL EXPERIENCE**

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**ACADEMIC REPRESENTATIVE**  
FOR THE COMPUTER ENGINEERING CLASS OF 2009 (8 STREAM)

MAY 2006 – MAY 2009  
(VOLUNTEER)

**MICROSOFT STUDENT PARTNER**  
FOR THE UNIVERSITY OF WATERLOO

SEP 2007 – DEC 2007

**PROGRAM DEVELOPMENT**  
GREATER TORONTO AIRPORTS AUTHORITY (TORONTO, ONTARIO)

JAN 2006 – APR 2006

- Designed and developed a web application using ASP.NET/C# to tabulate training requirements and course completions for Facilities staff to ensure that all workers were up-to-date in their training and certifications

**SOFTWARE DEVELOPMENT**  
HYDRO ONE NETWORKS, INC. (BARRIE, ONTARIO)

APR 2005 – SEP 2005

- Developed tools to monitor the performance of operations planning using Visual Basic and Microsoft Access

**UNIVERSITY EDUCATION**

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**MASTER OF APPLIED SCIENCE (CANDIDATE)**  
UNIVERSITY OF WATERLOO – COMPUTER ENGINEERING

MAY 2009 – PRESENT

**BACHELOR OF APPLIED SCIENCE**  
UNIVERSITY OF WATERLOO – HONOURS COMPUTER ENGINEERING, WITH DISTINCTION AND ON THE DEAN'S HONOUR LIST

SEP 2004 – APR 2009

**CERTIFICATIONS, INTERESTS AND MEMBERSHIPS**

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**STUDENT MEMBER**, Professional Engineers Ontario

**INTEREST IN MUSIC** (former band member, proficient on the baritone and alto saxophones as well as the organ)

**INTEREST IN MULTIMEDIA TECHNOLOGY** (assisted in the creation of a music technology course at my high school)