

# CHRISTINE MIYACHI

30 ECHO LANE  
LACONIA, NH 03256

[CMIYACHI@ALUM.MIT.EDU](mailto:CMIYACHI@ALUM.MIT.EDU)

[HTTP://WWW.LINKEDIN.COM/PUB/CHRIS-](http://www.linkedin.com/pub/chrismiyachi/0/835/a31)

[MIYACHI/0/835/A31](http://www.linkedin.com/pub/chrismiyachi/0/835/a31)

[HTTP://CHRISTINEMIYACHI.COM](http://christinemiyachi.com)

## OBJECTIVE

Veteran Software Architect looking for Product Development Leadership involving Software Architecture and Systems Engineering with a focus on Web Services and Cloud Computing

## EDUCATION

<b>Electrical Engineering, Bachelors of Science <a href="#">University of Rochester</a></b> , Rochester, NY	1980-1984	<b>Electrical Engineering, Masters of Science, <a href="#">University of Massachusetts Lowell</a></b> , Lowell, MA GPA: 3.8/4.0	1992-1999
<b>Technology and Policy/ EECS, Masters of Science <a href="#">Massachusetts Institute of Technology</a></b> , Cambridge, MA GPA: 4.15/5.0	1984-1986	<b><a href="#">System Design and Management</a>, Masters of Science <a href="#">Massachusetts Institute of Technology</a></b> , Cambridge, MA GPA: 5.0/5.0	2000-2001
Master's Thesis: <a href="#">Enhancing the Software Improvement Processes through Object-Process Methodology</a>			

## EXPERIENCE

### Principal System Engineer

July 1998–Present

[Xerox Corporation](#), Virtual Office- *product development of digital multi-function office products; development of web services and cloud computing solutions*

Using [SCRUM](#), delivered double the features for the [Extensible Interface Platform](#) in half the time. Delivering platform-based software architecture to increase productivity across a family of products. Used test driven development to link business requirements to software development. Led team to design and deliver Web Services for Devices ([WSD](#)) that enables automatic discovery of Xerox devices by clients. Promoted [Agile Processes](#) and [XP](#) in a larger company environment by creating a new software development process. Performed Security Risk Assessments (using Threat Modeling) on feature sets of our product, reducing our security risk in the field by 75%. Delivered with team cross platform architecture so that one common print driver could be used across all products. Designed and implemented a Java servlet to process XForms data as part of a new platform UI strategy for our device. Implemented unit testing frameworks and [Design-By-Contract](#) methods in a common class library to increase reliability. Re-factored a legacy model (the spooler) from C to C++ - redesigning by deriving technical requirements, remodeling, and rewriting the code. Created an MS-Access database to manage our software deliverables for EIP which reduced the amount of time of delivery by an order of magnitude. Led delivery of Device Development Kits to all web service interfaces available on a Xerox Multi-function Device.

### Technical Manager, Embedded Software

February 1995– July1998

[IRIS Graphics, Inc.](#), Bedford, MA - *product development of continuous ink jet color printers used in the graphic arts pre-press market*

## Skills

UML and Software Architecture  
Java, Javascript, C and C++, Ruby, XML  
Lean [Six Sigma](#) Green Belt  
Windows .NET  
Linux  
Web Services  
Cloud Computing  
MS Access  
SCRUM Master  
Project Management

## Certifications

-IEEE Certified Software Development Professional , 2004

-Working towards Microsoft Certified Solutions Developer (MCSD ) for .NET

-EIT and will be taking the PE (Professional Engineer) exam in EE.

-Completed certificates MOOC classes in [Software as a Service Part 1](#) and [Part 2](#)  
- Mobile Cloud Computing with Android [specialization](#) on Coursera (yearlong program):

## Professional

Chair, [Special Technical Community on Cloud Computing](#), IEEE Computer Society – 2013-2014

Chair, Steering Committee, [IEEE Cloud Computing Initiative](#), 2014- present

[IEEE](#), 1983 - present.

[Society of Women Engineers](#), 1994-present.

[ACM](#), 1998 – present

Read [Fast Company article](#) where I am quoted

Managed budget and reviews for group as well as day-to-day challenges of releasing embedded software for the printer. Delivered two major and three minor releases to the field with a team of five software engineers from principal to entry level; created and manage the feature set of each release and took release from the ideas to delivery to customers on time and under budget. Created a software process that included technical reviews (design, code, and test plans), schedules and project plans as well as contributing technically; the technical review schedule for both code and design resulted in a lower defect rate. Created and implemented a test strategy that improved the reliability of the product; our releases went through QA with an less defects and to the field after the test plan was implemented (about a 3x speed improvement from start to delivered). Spearheaded the development of software for the DSP chip embedded in the print head (TMS320C302xx); written in C and assembly code. Designed and implemented a Windows application (using MSVC++ 5.0 under Windows NT using MFC) to test our SCSI interface

### **Software Engineer**

1989–1995

[MRS Technology, Inc.](#), Chelmsford, MA - *product development of photolithographic stepper, a machine that builds flat-panel displays*

Designed, implemented, and delivered to customers a robotic transfer system: included device drivers, database design, motion control and user interface. Designed and implemented inter-process communications software using sockets over the TCP/IP protocol; software worked across multiple platforms. Created analysis and graphical display system based on MATLAB which allowed manufacturing and customers to analyze semiconductor equipment.

### **Senior Software Engineer**

1986–1989

[Prime Computer](#), Framingham, MA - *product development of new CAD/CAM system*

Designed and implemented mathematical models representing 2D and 3D geometry.

## **ACTIVITIES & AWARDS**

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-See my software architecture blog at: [The Abstract Software Architect](#)

-Presented webinars on Software Architecture here (playback here): [Systems Thinking](#), [Software versus Buildings](#), [Software Architecture and Cloud Computing](#)

- Article published in ACM Software Engineering Notes: [Software and Agile Architecture](#)

- Articles published in the MIT Newsletter Pulse: [Polymorphism](#), [Agile Architecture](#)

- Methods and Tools article "[How Software Learns](#)"

#### **Patents:**

- Partial Print Provider, US 7,511,836 B1
- A protocol allowing a document management system to communicate inter-attribute constraints to its clients, patent pending
- Web Service for Enabling Network Access to Hardware Peripherals, patent pending
- Tools and methods for customizing a multi-function device, US 9176751

-Fitness and Iyengar Yoga instructor – see [www.tomariken.com](http://www.tomariken.com)

-Have run 10 marathons

-Avid Skier and Snowboarder