

Chris Miyachi

SOFTWARE ENGINEER · SOFTWARE ARCHITECT

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"Software is a great combination between artistry and engineering."

Summary

Software Architect and Systems Engineer with experience leading projects from conception to launch and maintaining until stable and mature, and weighing design trade-offs against business requirements. Electrical engineering education and background, knowledge of embedded systems to full stack development including web services, cloud computing, and software development methodologies. Leadership and organizational experience in many professional activities that include writing, running conferences, and assembling local affiliate groups.


Experience

 **Xerox Corp.** *Virtual*
SYSTEMS SOFTWARE ENGINEER *1998-present*

- Delivered design and implementation of Web Services for the **Extensible Interface Platform**.
- Managed SCRUM team of 5-7 people for API systems engineering.
- Led offshore team (5-6 people) to develop test driven development to link business requirements to software development.
- Created Device Development Kits for developers to all web service APIs available on a Xerox Multi-function Device.
- Managed a group of 26 developers to deliver a print solution based on Microsoft Embedded Operating System.
- Recent Projects:* Address Book API to deliver JSON data of address data from device; Cross Origin Resource Sharing (CORS) implementation for our web services and device browser.

 **IRIS Graphics, Inc.** *Bedford MA*
TECHNICAL MANAGER, EMBEDDED SOFTWARE *1995-1998*

- Product development of continuous ink jet color printers
- Managed budget and reviews for group as well as day-to-day challenges of releasing embedded software for the printer.
- 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.

 **MRS Technology, Inc.** *Chelmsford MA*
SOFTWARE ENGINEER *1989-1995*

- Product development of photolithographic stepper
- 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.


Education

 **MIT Sloan School** *Cambridge MA*
S.M. IN SYSTEM DESIGN AND MANAGEMENT


- Combined Engineering and Management Degree; **GPA: 5.0/5.0**

 **UMASS Lowell** *Lowell MA*
M.S. IN ELECTRICAL ENGINEERING

- GPA: 3.8/4.0**

 **MIT** *Cambridge MA*
S.M. IN TECHNOLOGY AND POLICY / ELECTRICAL ENGINEERING

- Thesis: Enhancing the Software Improvement Processes through Object-Process Methodology**

 **University of Rochester** *Rochester NY*
B.S. IN ELECTRICAL ENGINEERING

Publications

- 2018 **Cloud Community of Practice, IEEE Cloud Computing Magazine**, Bi-monthly column on the various communities within cloud computing including research, standards, activists, and policy makers.
- 2012 **MIT Pulse Newsletter**, Articles published on Polymorphism, Agile Architecture.
- 2009- **The Abstract Architect**, My software architecture blog.
- 2011 **ACM Software Engineering Notes**, Article on Software and Agile Architecture.

Professional Activities

Chair, IEEE Cloud Computing: 2013-2018 Managed a worldwide group of volunteers that produced conferences, educational materials, blogs and podcasts on **Cloud Computing**.

Board, IEEE Cloud Computing Magazine: 2016-2018 Review articles for submission and wrote column **Community of Practice**.

Chair, IEEE Blockchain Initiative, Boston Chapter: A2018-present Creating a local branch of the **IEEE Blockchain Initiative** in the Boston area.

Board, IEEE Future Directions: 2017-present Create new initiatives within the IEEE that focus on the latest technologies.

Skills

Programming SCRUM, XML, SOAP, JSON, C/C++, Javascript, Linux, Embedded Systems, Full Stack Development

Leadership

SCRUM Master, Lean Six Sigma GreenBelt, Requirements Management, Test Driven Development, Project Management, Architectural Tradeoffs

Cloud Platforms

Microservices, IBMCloud, Google Protobuf

Languages

English, Japanese

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, *US 8832340*
- Tools and methods for customizing a multi-function device, *US 9176751*

Personal

- Marathon Runner (have run 20+ Marathons)
- Skier, Snowboarder, Fitness Trainer (Les Mills)
- Certified Iyengar Yoga Teacher
- Vice President, Iyengar Yoga of New England Association Board
- Board Member, New Hampton School