Resume

Steven Velozo

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MAKING IS MY FAVORITE ACTIVITY. There is something magical in tear-downs and build-ups, tweaks, planning and design implementation. Over the years my passion for creativity and design has taken me through many paths from product research and development through organization growth and leadership. At the core I'm happiest working in a team of talented, creative individuals.

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What I do:

- Design & hire teams cultivating healthy and lasting culture.
- Define & manage a thoughtful software development process.
- Research product landscapes to shape strategy.
- Devise & document product architectures.
- Write scalable code to solve deep technical problems.
- Drive & deliver software product releases.
- Maintain expert knowledge of the technology industry.
- Build lasting strategic partnerships.

Why I do it:

- 1. Solving interesting problems, learning along the way.
- 2. Designing products and solutions, innovating where appropriate.
- 3. Seeing customers benefit from my work.

Technologies I have used recently:

Toolchain Sublime Text 2, vim, bash, unix toolchain

Programming Languages node.js, C, C++, C#, javascript, hhvm/hack, closure, python, php,

java, Pascal, LaTeX, bash

Database MySQL, PostgreSQL, Solr, Lucene, Microsoft SQL Server, Mon-

goDB, SQLite, neo4j

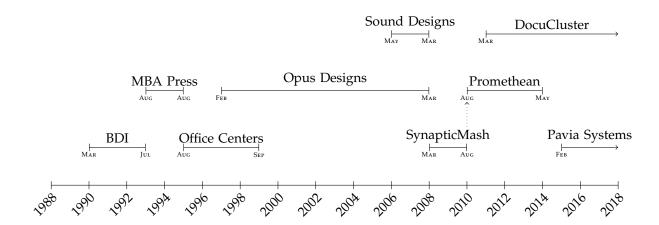
Frameworks Backbone, Underscore, Angular, Leaflet, Mapnik, slim, Zebra

Crossing, OpenCV, GMP, libpng, junit, nunit, phpunit

Cache Servers Couchbase, memcached

Operational Tools Docker, Chef, Vagrant, AWS

Professional Work History



CTO at Pavia Systems, Inc. [2015-PRESENT]

Pavia Systems¹ specializes in creating technology systems for organizations in the transportation infrastructure industry. Pavia's customers include large Departments of Transportation, Contractors, Equipment Manufacturers, and Materials companies all with ties to the industry. Pavia is highly specialized with core expertise in technology, industry issues, and education, making it uniquely qualified to deliver best-in-breed technology systems. Pavia has provided opportunities to implement products and data research tools in large-scale government projects.

Board Member & Cofounder at **DocuCluster**, Inc. [2011-PRESENT]

DocuCluster² is a vertical market software company in the oil & gas exploration industry. Originally this was an informal collaboration with my cofounder to research automatically generating graphs of complex textual documents via OCR. This has blossomed into a great "when we want to" weekend job for stretching the brain in a very complex problem space. Entirely self-funded, we aren't in a hurry to grow a huge organization, instead focusing on designing and building quality products. My work at DocuCluster has been a revelation in understanding systems for presenting large bodies of complex search results to users in a meaningful way.

Using modern technologies such as Lucene, Solr, neo4j, node.js and mapnik we provide real-time access to complex reports uniting huge bodies of data. The standard industry process for assembling

¹ The Pavia Site

² The DocuCluster Site: http://bit.ly/1cCOAVO



Figure 1: The DORA Search Product

these reports requires multiple departments and weeks of lead time.

Head of Software at Promethean, Inc. [2010-2014]

Promethean³ is a global education technology company, primarily in the interactive whiteboard business. When Promethean acquired SynapticMash, I shifted into the Chief Architect position at Promethean. My first task was to retool the SynapticMash education software platform to be a part of the Promethean product ethos; this product became ActivProgress. Over the course of four years my responsibilities grew, ultimately running teams in three global locations delivering five distinct software product lines. These products included:

- Highly scalable web software⁴
- Strategic software partnerships deliverables⁵
- Local network server software
- Mobile applications for iOS, Android and Win8 RT⁶
- An internet-based license management server
- Hardware drivers for Windows, Linux and Mac OS/X
- Thick productivity software we bundle with our hardware

³ Promethean, Inc. Site http://bit.ly/Ls8dug

- ⁴ ActivProgress Mexico http://bit.ly/19AP2sx
- ⁵ McGraw-Hill Power of U http://exm.nr/1eRSwqw
- ⁶ ActivEngage 2 http://bit.ly/1axvUtL

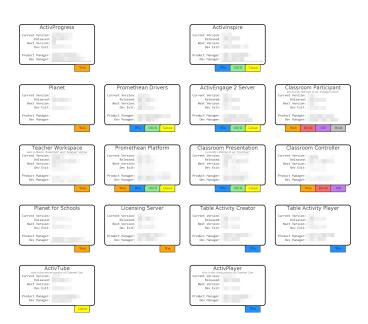


Figure 2: The 2013 Product Matrix

Much of my work at Promethean was entirely strategic⁷. I regularly traveled internationally to localize and culturalize our software products. As well I ushered the global software team through a time of deep organizational change, merging three isolated software divisions as we shifted from one executive regime to another (Promethean had a change of CEO in 2012). My experience at Promethean,

⁷ Strategy Council Prezi http://bit.ly/1bdyeTS a public global corporation, provided new skills and tools for working in and with large companies.

Chief Architect at SynapticMash LLC [2008-2010]

SynapticMash⁸ was an education software company focused on data analytics, social networking and classroom engagement. I was hired before investment series A closed. I designed and built the entire technology organization⁹ including software architecture, products and hosting infrastructure.

My responsibilities at SynapticMash included:

- Hiring the entire software design, development and delivery teams
- Capturing and documenting product specifications
- Defining and documenting software and hosting architecture
- Managing the patent portfolio
- Delivering software products
- Building and maintaining strategic partnerships
- Reporting SDLC progress to investors and the board
- Presenting our technology vision externally at conferences

SynapticMash was my first experience building an organization and delivering products within a venture capital funded company. We sold¹⁰ to Promethean, Inc. in 2010 where I continued my executive leadership position.

CTO & Cofounder at Sound Designs LLC [2006-2008]

Sound Designs was a New York-based branding, web design, software development and hosting business catering to music companies¹¹, musicians¹², supermodels and visual artists. We developed an in-house content management and calendaring system tied to a skinnable actionscript streaming audio player to create online presence for bands. This was my first time dealing with highly internationalized products- some sites had distinct language and culturization requirements when viewed in English, French, Spanish and Arabic.

CTO & Founder at Opus Designs LLC [1997-2008]

Opus Designs started as a vehicle for packaging and reselling software and tools I built during my experiences running Office Centers. Eventually it evolved into a bespoke software company, primarily bringing in revenue via licensable software technologies. These libraries, products and services most often dealt with large-scale data analytics and scalability. We used a wide variety of technologies to

- ⁸ SynapticMash on Crunchbase http://bit.ly/Ls8EVh
- ⁹ The SynapticMash Executive Team http://bit.ly/1b8NfX3

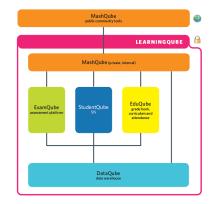


Figure 3: SM Product Architecture

¹⁰ The SynapticMash Transaction http://bit.ly/1i7qeeQ

- 11 D'Angelico Guitars Web Site http://bit.ly/1dwsbwV
- 12 The Undead Web Site http://bit.ly/1adVhDm

With customers such as D'Angelico Guitars, this business was great for growing my guitar collection.

build bespoke software and specialized systems across many platforms.

We billed ourselves as an artisan shop for solving complex problems with technology. The resulting vertical market software solutions were delivered around recurring revenue licensing models, some as stand-alone applications and others providing SDKs for customers to build upon. A few of the more interesting problems we solved included:

- Applying grid solvers to massive databases to compute optimized sales playbooks for broadcast advertising.
- Using GPS and time-of-day drive time statistics to optimize mix levels and agitation speed for material delivery (e.g. cement).
- Delivering emails from queued flat files, allowing legacy software to emit messages to the internet without rewrite.
- Working with internet software companies having trouble scaling their technology and teams.
- Writing custom drivers and interfaces for Linux embedded devices.

The work at Opus Designs allowed me to further understand and hone my ability to intentionally drive a strategic balance between technology management, people management and business model.

Vice President & Cofounder at Office Centers Inc. [1995-1999]

Office Centers was a fully staffed professional services executive suite with offices in Lynnwood, Seattle and Everett. As the Vice President and Cofounder my time was spent managing contracts, hiring employees and building technology to keep us ahead of the market. This was the first organization where my responsibilities included building a team and organizational culture.

Graphic Designer at MBA Press [1993-1995]

MBA Press was a tiny independent printing press near Santa Cruz, California. My tasks there involved designing print materials, processing imagery in a professional press darkroom and running machinery such as printing presses. Working in a structured environment like a press with dedicated phases of product gave me a good sense for project and organizational abstraction.

Intern, Consultant at BDI Distributing Inc. [1990-1993]

BDI was a small service-oriented computer consultancy with customers all across the Pacific Northwest. As a networking consultant



Figure 4: Opus Designs site 2007

Many of these advanced algorithmbased projects were first written in C++, then rewritten in Haskell or Lisp.

It became evident at this organization that I did not enjoy managing low wage/high turnover staff. This was the primary reason I moved on.

Between 1990 and 1993 I had the opportunity to visit and explore Comdex Las Vegas, which in those days was the trade show to be at for learning the technology craft.

at BDI Distributing I was tasked with building and configuring IBM PC clones, building and managing LANs and developing custom software. Of note I designed, developed and shipped my first networked database software in 1992 from BDI: a turn-key replacement for time cards using monochrome touch-screen displays and the Btrieve/Novell database engine.

Volunteer Work History

Director of Technology at VaginaPagina [2001-2014]

VaginaPagina is an online community that offers a supportive, progressive, body- and sex-positive environment in which to discuss issues related to female sexual and reproductive health and wellness. Beginning as a LiveJournal community, it blossomed¹³ into a volunteer-run nonprofit organization with an anonymous online repository of information. My responsibilities included developing the web software and managing the domain. The site used an embedded media wiki to provide a rich online information resource.

¹³ VP in the News http://bit.ly/1dZooas

Director of Technology at Home Alive [2000-2005]

Home Alive¹⁴ was a community-based anti-violence organization that provided affordable self-defense classes, workshops, and educational events for all people within a social change framework. Over the course of my volunteer time there I managed internal IT, web hosting and email services. It was an honor to work with all the dedicated volunteers on Capitol Hill in Seattle for such a great cause.

¹⁴ HomeAlive Site http://bit.ly/1hzw99S

Education **History**

Undergrad at Seattle Pacific University [1995-1998]

At SPU I pursued a double major in Graphic Design and Math for Computer Science. Eventually as my first business grew I was forced to make a time choice between schooling and running the business. I chose to focus on growing the company and have not regretted the decision since.

Successfuly Shipped Professional Software in the Last 2 Years

Product	Description Platform: Technologies Used
DORA	Record Ingestion - Image Acquisition Web: node.js, rabbitmq, tesseract, LaTeX
PMDb	National Pavement Maintenance Database Web: node.js, mysql, php, sqlite, MS SQL Server
DORA	Project Management Web: node.js, hhvm, BackboneJS, Bootstrap, Solr, neo4j, MySQL
DORA	Document Search Interface Web: node.js, hhvm, BackboneJS, Bootstrap, Solr, neo4j, MySQL
DORA GIS	Map Plotting Software Web: node.js, Solr, Leaflet, mapnik, OpenStreetMap, PostgreSQL
Engage Licensing Server	Internet Licensing Server Web: Mono/C#, node.js, AngularJS, Bootstrap
ActivEngage Clients	ActivEngage Response Client Web: Mono/C#, node.js, AngularJS, Bootstrap iOS: Objective-C Native App Android: Java Native App WinRT: C#, WinRT Native App
ActivEngage Server	LAN Polling Server Web: Mono/C#, AngularJS, Bootstrap
	Web. Mono/ Cπ, Angularys, bootstrap
ActivProgress	Education Assessment Platform Web: Mono/C#, Java, AngularJS, Couchbase, MS SQL Server
ActivProgress Planet for Schools	Education Assessment Platform
	Education Assessment Platform Web: Mono/C#, Java, AngularJS, Couchbase, MS SQL Server Privatized Professional Development Network
Planet for Schools	Education Assessment Platform Web: Mono/C#, Java, AngularJS, Couchbase, MS SQL Server Privatized Professional Development Network Mono/C#, node.js, AngularJS, Bootstrap HID Drivers for the Promethean ActivBoard Windows: C Linux: C
Planet for Schools ActivDriver	Education Assessment Platform Web: Mono/C#, Java, AngularJS, Couchbase, MS SQL Server Privatized Professional Development Network Mono/C#, node.js, AngularJS, Bootstrap HID Drivers for the Promethean ActivBoard Windows: C Linux: C Mac OS/X: C Interactive Whiteboard Drawing and Presentation Software

Primary Inventor of the Following Patents

Patent ID	Description
2014-297,494	Systems and Methods for Detecting, Identifying and Tracking Objects
	and Events Over Time
2014-297,513	Systems and Methods for Tracking Object Association Over Time
2014-297,743	Dynamic Scheduling of Participants Into Groups
US08595254	Education Data Roster Building Interface
20100257136 (provisional)	Data Integration and Virtual Table Management
20100255455 (provisional)	Adaptive Student Assessment

Trade Secrets & Upcoming Patents

After mutual nondisclosure is in place, there are a number of documents in my portfolio which are not yet public domain. These documented trade secrets describe algorithms and methodologies which will never be disclosed as public domain, but are indicative of the calibre and type of software development work I'm capable of. An in-person review of these materials can be arranged.

Current Visas

My passport has current extended stay business visas for many of the most challenging to get countries including China, Brazil and Argentina. Business travel has taken me to four continents and 36 countries as well as all fifty US states in the last 10 years. This exposure to varying national and international cultures gives me strong advantages building localized and culturalized products and business relationships.