

# Eric Bergerson

Objective Technologies Inc.

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## SUMMARY

More than twenty years in commercial software development and consulting as a manager, architect and developer. Founded and led a team leveraging data science and predictive analytics. Founded two companies generating revenues of \$4M. Managed development groups of 20+ people with an annualized budget of \$3M. Brought 12 products to market, including web services, shrink-wrapped applications, and developer tools. Designed and implemented software for Profit Optimization, Financial Services, Health Care, SaaS Applications, Entertainment, and Market Research. Lectured on and taught object-oriented software development methodologies and project management.

## EXPERIENCE

**Objective Technologies Inc.**, President, NY [www.object.com](http://www.object.com) July 1990 – Present

Co-Founder of Objective Technologies, Inc. (OTI), a software development and consulting company. President since 1996. Board Member and Managing Director of OTI since its conception in 1990. Manage all aspects of the business, including research and development, sales, marketing, legal, accounting, fulfillment, and customer relations.

Managed the creation of numerous packaged software products for software development, database interaction, and reporting. Responsibilities included design, development, management, quality assurance, marketing, and sales.

Manage systems consulting projects. Responsibilities have included pre-sales, project management, design, implementation, and deployment. Projects have ranged from contracts for specific objects, to single applications, to full distributed systems including integration to real time data feeds, large relational databases, compute servers, and other resources. Environments were normally heterogeneous. Projects were often financial trading systems for large, well-known financial services companies, including First Boston, Phibro Energy, JP Morgan, Quotron, and Republic National Bank.

Consult and lecture on object-oriented development methodologies and project management. Typically, these methodologies have been applied to distributed client/server applications for financial services and web-based application services.

- Shipped eleven shrink-wrapped software products
  - Developer tools, object kits, database tools and a reporting application
- Consulted to many large financial services companies

Projects included mostly trading systems, analytics, and commercial banking applications.

**BeLocal Group**, Founder, NY [www.belocalgrp.com](http://www.belocalgrp.com) Jan 2017 – Present

Working with a great team to empower people in developing countries to solve their everyday quality of life challenges through the use of global crowd-sourced innovations. Along with the other founders, developed the BeLocal Process, a five-step process of reproducible innovation that hopes to evolve philanthropy by focusing on two primary objectives: to shift the agency of progress to people in the developing world and to do so by empowering them to leverage the power of innovators across the world.

**Blue Square Wealth, LLC**, Chief Technology Officer, NY <http://www.bluesquarewealth.com> Jan 2018 – June 2021

Responsible for all technology issues and management. BSW provides a unique investment methodology which enhances traditional portfolio management practices by managing individual asset class exposure based on their proprietary Dynamic Risk Indicator (DRI). The entire technology stack that is readily available for the automation of RIAs required replacement or enhancement to properly include or reflect the systemic use of the DRI across client investments. Managed, designed and implemented custom software to provide the systemic support for the use of the DRI across all business units including investing, trading, advertising, marketing, and planning. This included:

- Defining, managing, and implementing full stack web applications to support DRI analytics
- Developing systems and procedures to insure we were more than compliant with all SEC regulations
- Managing all corporate infrastructure to support Wealth Management services.

**TickerTags, Inc.**, Director of Research, TX [www.tickertags.com](http://www.tickertags.com) Jul 2015 – June 2017

Responsible for the research and development of predictive analytics in support of the company's objectives to align conversation in social media with impact on investable assets.

- Guided and originated modeling efforts including those for spam classification and sentiment analysis
- Researched and defended the predictive power inherent in the social conversation/asset relationships

- Designed, implemented, and supported the API providing live data to our customers
- Served as company representative to all Quant & Hedge fund customers for research, data science, and API-related issues

**Vendavo, Inc.,** Senior Director, Engineering, NY [www.vendavo.com](http://www.vendavo.com)

Sep 2012 – Dec 2014

Founded and led the group responsible for all analytics supporting new products dedicated to improving the profitability of our customers through the exploitation of data science and predictive analytics applied to big data. The team of 15 included domain experts, mathematicians, professors, and software developers combining their efforts to research, design, and implement horizontally scalable solutions to large-scale algorithmic challenges in business-to-business analytics.

- Researched and implemented proof-of-concept project that convinced the board to pursue a strategy of extending their product line to include more insightful features powered by predictive analytics
- Managed and actively participated in the data science team to research and implement the predictive analytic features
- Architected and managed the implementation of the back-end production platform for processing of multiple simultaneous arbitrarily complex big data predictive analytic problems
- Delivered production back-end analytics ahead of time for Vendavo's first SaaS offering that included insightful analysis

**Sesco (PJM Strategy), LLC.,** Power Trader / Consultant, NY

Jan 2004 – Oct 2011

Full-stack engineer designing and implementing primary trading systems

- Front-end applications and components (mostly Swing)
- Two-tier trading systems, including apps, back-end, persistent storage
- Distributed messaging and coordination using JMS and distributed in-memory data grids

One of three founding members of the algorithmic trading desk. Responsible for the full life cycle of systemic trading of electric power:

- Discovery of algorithmic opportunities
- Research and development of trading strategies
- Implementation of systems for back-testing, analysis, and execution

Worked with INC/DEC and UpTo Congestion instruments in the PJM and MISO markets.

**Ukibi, Inc.,** Vice President of Development, NY

Sep 1999 – Jul 2001

Ukibi provided web accessible "up-to-date" contact management on an ASP & ISV basis to major web portals and telecommunications companies. As the Vice President of Development, I contributed my technical experience and expertise to Ukibi's broad management team. As leader of the development group, my responsibilities included management of the staff, consultants, projects and budget. As the technical architect of Ukibi's core technology, responsibilities included design and implementation of Ukibi's object-oriented foundation architecture, database, remote systems integration, and web applications.

- Web-Based Application Services providing up-to-date Contact Management utilizing WebObjects
- B2B Integrations accomplished using skin-based look and feel, and a complete Peer Services API
- Services include wireless PDA and mobile access via WAP
- Synchronization of user data accomplished via SyncML-compatible clients and server utilizing XML
- Architected and presented a plan for migration to pure Java implementation to satisfy investor requirements

**LGS Systems, Inc.,** CEO pro tem, NY [www.lgs-systems.com](http://www.lgs-systems.com)

Sep 1996 – Dec 2014

Co-Founder of LGS Systems, Inc., a provider of medical systems technology and services. As CEO pro tem, provide management and technical expertise to all aspects of the business. Responsible for business development and strategy, marketing and over-all project management. Chief Technical Architect for the development of the premier product, MDIQ, a medical practice management system. The product is object-oriented, distributed, persistent, scalable, and web-ready.

- MDIQ provides integrated Billing, Administrative and Clinical services for Medical Groups
- Multi-Tier architecture supporting a strongly separated Model-View-Controller design
- Designed for maximum customization to provide high adaptability to diverse requirements
- Provides ubiquitous services for all data, including Security, Ad-Hoc Query, and Reporting

**Office of the Future,** Consultant, NY

Mar 1990 - Jun 1990

Responsible for the development of a NeXT project group. Responsibilities included design, development and deployment of consulting projects developed on NeXT Computers in Objective C.

- Developed a profit optimization system for retail stores based on market data provided by ACNielsen

Principal technologist responsible for the design and implementation of trading systems supporting equity arbitrage and program trading. Development was primarily in C++ on Sun Microsystems computers. Designed, implemented, and deployed distributed program trading systems, analytical model applications, and position management tools. Also involved in the analysis of new security issues for investment banking projects.

- Program Trading System integrated to SIAC, Reuter's real-time data feed and position data in Sybase
- Unbundled Stock Unit (USU) historical analytics proving profitability of the security over the previous 40 years
- USU Trading System, to be utilized by Lehman and the New York Stock Exchange, had the security been issued

## OTHER EXPERIENCE

System Administration, Bio-medical image processing, Bio-medical modeling, and Electronics Technician

## SKILLS

Research Environments: Python, R, Wolfram Language (*Mathematica*), H2O  
Computer Languages: Java, Objective-C, C, C++, SQL, Prolog, Pascal, Fortran, Lisp, Basic, OPS5, Assembly  
Operating Systems: Mac OS X, UNIX/Linux, Windows, MS-DOS, VMS, AOS, RSTS/E, TOPS20, APPLIEDOS  
Hardware Experience: Apple, PC, NeXT, Sun Microsystems, DEC VAX  
Toolkits: React, Redux, Lambdas, JavaFX, Swing, J2EE, JDBC, Coherence, WebObjects, EOF, Cocoa, WAP, SyncML

## EDUCATION

**University of Rhode Island, Kingston, RI**

Master of Science in Electrical Engineering, Graduated May, 1988

**Carnegie-Mellon University, Pittsburgh, PA**

Bachelor of Science in Electrical Engineering, Graduated May, 1986

## PUBLICATIONS

1. *Automated 3D Reconstruction of Tree-Like Structures from Two Orthogonal Views*, **Proceedings of the International Conference on Acoustics, Speech, and Signal Processing**, New York, 1988 (with Dr. Ying Sun)
2. *Automated 3D Reconstruction of Vascular Structure from Biplane Angiograms*, **The 23rd Meeting & Exposition of the Association for the Advancement of Medical Instrumentation**, Washington, D.C., May, 1988 (with Dr. Ying Sun)

## PATENTS

- Bergerson, Eric; Cowen, Thomas Sean; Kurka, Megan. 2014. U.S. Patent Application
  - **Systems and Methods for Price Point Analysis**, [20140214492](#)
  - **Systems and Methods for Waterfall Adjustment Analysis**, [20140214493](#)
- Bergerson, Eric; Kurka, Megan; Qu, Huashuai; Ryzhov, Ilya O.; Fu, Michael C. 2016. U. S. Patent **Systems and Methods for Optimal Bidding in a Business to Business Environment**, [10937087](#)

## PRESS

1. [Laurel Hollow team partners with Stony Brook University in Madagascar](#), TBR NewsMedia, June 23, 2017
2. [Software Made Simple](#), BusinessWeek, September 30, 1992, Cover & pp. 92 - 100.
3. *The Object Game*, **NEXTWORLD**, Fall 1992, pp. 11, 14.
4. *Mission Control*, **NEXTWORLD**, Fall 1992, pp. 11, 14.
5. *The NeXT Wave On Wall Street*, **Wall Street & Technology**, June 1992, pp. 67 - 74.
6. *ISDN-Kit launches NeXT into communications future*, **NEXTWORLD**, Spring 1992, pp. 18.
7. *Next Inc. Is Enjoying Comeback, But Competitors Lurk in Wings*, **Wall Street Journal**, June 27, 1991, pp. B1, B4.