

# Jorge Monasterio

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## Summary

Software Architect with experience at multiple startups and large corporations. Focus on product development. Ability to come to speed very quickly. Looking for a role “hands on” technical individual contributor.

- Multiple director-level and manager-level positions at tech startups
- Led architect teams and development teams.
- Owner of software development service business (16 years).

## Employment History

### **Software Systems Architect**

**Oct/2022 –Present Rockwell Automation, Milwaukee WI**

- Evangelist for Cloud Native evolution – Led various cloud initiatives to improve web-based Industrial Automation design products: Asynchronous messaging, cost optimization, well-architected framework, microservice catalog, and API first. Built proof of concepts, presented/evangelized, wrote architecture-decision-records, and removed roadblocks to foster software architecture improvements.
- **Mentoring** Onboarding and mentoring new product architects.

### **Software Product Architect / Architecture Team Leader**

**May/2020 –Oct/2022 Rockwell Automation, Milwaukee WI**

- **Team Lead** for team of Software Architects. Delivering robust microservice architecture for web-based automation design tool using Typescript and Golang on Kubernetes.
- **Team Lead** for team of Software Architects. Focused on design and delivery of Azure containerized backend for web-based IDE in the Industrial Automation space..
- Successfully migrated a large nodeJS application from Windows/native to Kubernetes/cloud. Some greenfield services and some legacy. Developed helm-based technology for deploying containerized application that scaled from desktop to data center.
- Utilized SAFE development process on project with 30+ “pod” teams and nearly 400 team members on software project.
- Developed microservices in typescript (NodeJS) and GoLang. Worked with globally distributed teams development, mainly in South America and Europe.
- Delivered high-level designs, performed code reviews, mentored developers, and coordinated efforts of agile teams.

## **Consultant/Owner, Software Product Development**

**May/2004 – May/2020      GeoMar, LLC (Self-employed)**

Founded and ran successful consulting business developing new products for startups and large corporations. Designed and implemented software for Windows and Linux. Full-stack expertise, developing SAAS and desktop.

### **Selected Customer List:**

- **ThinkIQ.COM** – (1.5 years) Industrial automation analytics. Postgres DB design and partitioning of time series data in Postgres. Deep familiarity with Postgres. GraphQL, Groovy, PHP, Kubernetes, Docker, Joomla, Java. Data analytics.
- **Ephesoft** – (1 year) Document management. Java Swing web application development for imaging application.
- **Fujitsu Computer Products of America** (6 years) – Windows document Scanning Applications in C# / Winforms. Created custom scan applications for embedded hardware.
- **NASDAQ 100 Company** (1 year) – Created new supply chain management SAAS application in C# / MVC.NET / SQLServer.
- **TigerConnect** (5 years) – ActiveDirectory synchronization Windows Service. Windows C# UI application.
- **Kofax Image Products** (8 years) . Document management and image processing. C#, C++, & Java. Scanning applications and toolkits.
- **SouthRiverTech.com** –(8 years) Secure file transfer. C++ code for several ASP.NET products including GroupDrive and Cornerstone (FTP client).
- **OptionEase.com** –(5 months) C#/ASP.NET SAAS financial software on SQL Server database.
- **QSC Audio** - (7 months) Audio processing. C# distributed control system and Winforms UI for audio systems.
- **PivX.com** (2 years) – Development of Windows-based Security analysis tool.
- **Emida.net** - (1 year) Technical due diligence.
- **Supplier-info.com** (2 years) - Development of single-sign-on plugin for Internet Explorer.

## **Manager, Software Engineering**

**June/2002 – May/2004      GoRemote, Inc. (Formerly Axcelerant, Inc, now iPass)  
Irvine, CA**

- Developed software and system to provide managed broadband service and security to Fortune 500 clients.
- Managed team of 11 developers and one tech-writer on various ongoing IT and development projects. Technologies include: Oracle, MySQL, Java, Perl, FileMaker, multiple IIS and Apache websites, etc.
- Team performed development and maintenance on all internal operational systems. Full technical responsibility for all high availability systems in telecommunications environment with extremely high security requirements.

## **Director, Software Engineering**

**June/2000 – June/2002 CQOS, Inc.**

**Irvine, CA**

- Directed teams totaling 3 software managers and 23 software engineers.
- Early employee at startup that developed products for measuring IP quality-of-service. The main customers were Internet service providers and telecommunications companies. My three teams' main efforts were in the data collection, storage (Oracle), and reporting of measurements collected by distributed custom hardware. We were also responsible for web-based presentation (Java/WebLogic) and integration with third-party network management systems.

## **Manager, Software Development**

**Feb/1994-June/2000**

**Kofax Image Products**

**Irvine, CA**

- Managed teams of up to ten C++, C, and Visual Basic developers creating document management applications and toolkits. Experience working with multi-disciplinary teams. Projects up to 500K lines of mixed language code.
- Consistently assigned to key projects using latest technology. Successfully shipped company's first XML product, first internet-based product, first ActiveX product, and first 32-bit products.
- Technical contributor/architect: COM, ActiveX controls, VB 4/5/6, ASP, HTML, DHTML, IIS, software toolkit design, image scanning and image processing.
- Leader of engineering initiatives such as daily builds, code inspections, coding standards, reuse library, and gate-system. Also managed engineering services group supporting company-wide configuration management.

## **Contractor**

**June/1991-Feb/1994**

**Self Employed**

- Designed and developed custom Windows software, firmware, and hardware for various customers, mainly related to laser printing and image scanning technologies.
- Specialized in converting ideas into prototypes for pre-funded companies. Extensive technical presentations to venture capitalists, investors, and customers.

## **Manager, Electrical Engineering Department**

**Feb/1990-June/1991 Star Micronics (Acquisition)**

**Long Beach, CA**

- Managed hardware team that developed various components for laser printers. I performed the digital electronic design and firmware design on these projects.

## **Electrical Engineer**

**Oct/1988-Feb/1990 Texas Instruments, Defense Electronics Systems**

**Dallas, TX**

- Designed hardware and software for FLIR (forwarding looking infra-red) night-vision systems.

## Technical Skills

- Azure / Kubernetes / Helm / Docker / Rancher / WSL
- C# / F#, Java and Go Lang, NodeJS
- Rust, C / C++
- DB: Postgres, SqlServer, mySQL, Sqlite
- ELM, HTML / JS / typescript / MVC.NET
- TCP/IP / SMTP / SNMP / UDP / FTP
- Embedded C / Embedded Linux
- Internet Browser Plugins (IE / Firefox)
- Git / Mercurial
- Programming ActiveDirectory / LDAP
- Mobile: IOS
- Windows: COM / Active X / MFC / ATL

## Education

B.S.Electrical Engineering., University of Dayton, Ohio, 1988.  
Graduated Cum Laude.

Fluent in French and Spanish.

## Patent

US patent #5,488,467: Laser Printer Paper Handling System.  
Multiple patent applications in progress.