

# markdonohoe

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## HIGHLIGHTS

### Over 34 years of software development experience (27 corporate)

C# 8 Years, Swift 3 Years, Obj-C/C++ 7 Years  
First program Age 12, First award Age 13, First Copyright Age 14

### Full-Stack Architect on Multiple Platforms

Exceptional front-end skills in iOS and WPF, Strong in Android. Very-strong API and Services design skills, Proficient in SQL and SOAP-based web services with some exposure to java-based microservices on the backend.

### StackOverflow Rating of Over 10,900 (Top 2% of the site as of Nov 2018)

Rated one of the highest in C#/Swift, Reached over 970k people

### Highly Skilled at Deciphering Complex Problem Domains

Substantially-above-Average capability to both understand, and effectively communicate areas of concern and potential future impacts of design decisions to both development teams, product owners and clients/customers.

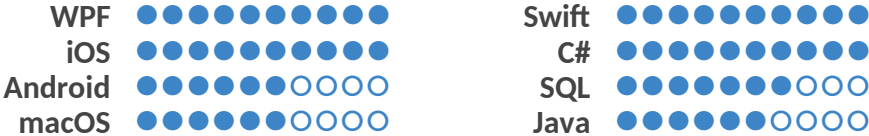
### Technical Lead of Development Teams up to 15 People

Successfully led the design and implementation of multi-part, multi-stage development projects with simultaneous release on multiple platforms.

### Instructed Coding and Design Seminars, Classes and Lectures

Gave presentations on topics such as advanced-level programming techniques, consistent and effective user interface design, SOLID and CLEAN API design, services object modeling, and coding and graphics tips and tricks

## DEVELOPMENT SKILLS



## PROGRAMS

- |                    |                           |
|--------------------|---------------------------|
| Xcode 10           | Adobe Photoshop CC 2018   |
| Visual Studio 2017 | Adobe Illustrator CC 2018 |
| Android Studio 3   | PaintCode 3               |
| Visual Studio Code | Sketch                    |
| GIT / Subversion   | Apple Keynote             |

## WORK EXPERIENCE

June 2016  
to Present

### Vice President of Engineering

**Citi FinTech** – Citigroup, Long Island City, NY

Utilized: Swift, Java, iOS, Android

- Team Lead on the Invest Module of the iOS and Android Citibank mobile apps
- Created over 50 custom extensions for Foundation and UIKit
- Championed CLEAN and DRY Architecture patterns
- Created a microservice-calling framework reducing existing client service call code on average by 60% and in some cases up to 90%
- Led refactoring of earlier designs to improve performance while simultaneously reducing the overall app size by 10%
- Championed non-blocking UI designs
- Created TableController object-oriented model for UITableViews
- Designed several UI and non-UI frameworks for use across various teams.

March 2009  
to April 2016  
(7 Years)

### iOS Software Architect / C#/WPF Senior Software Engineer

**Crestron Electronics** – Rockleigh, NY

Project 1: Crestron Mobile 2.0 (Utilized Objective C/C++, iOS and macOS)

- Took sole ownership of an already-released Crestron Mobile 1.0 application to address existing memory leaks, app crashes and poor performance
- Ground-up rewrite of the networking protocol and rendering stack. This resulted in an overall memory reduction of 300% (11,000% in one area), speed was increased by 2,600% and supported project size was increased by 800%.
- It reached the #1 spot in the home automation/control category in the App Store for both highest-grossing revenues and highest customer satisfaction
- Reached #31 in highest-grossing revenues across all categories in the App Store.

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★ *Crestron Mobile 2.0 was selected by Apple to appear in one of their international iPhone commercials as an example of excellent user interface design and functionality*

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Project 2: Crestron Design Studio (Utilized WPF/C#)

- Primary responsibilities were to lead the UI design of the overall application
- Successfully speed up the existing UI's implementation by a factor of 400-450%
- Re-designed large portions of the UI to make them more user-friendly
- Worked directly under the chief architect to standardize portions of the code base.
- Authored more than twenty custom controls and their developer-facing APIs

December 2004  
to March 2009  
(4 Years, 4 months)

### Chief Software Architect / Team Leader

**Porter Valley Software** – Porter Valley Ranch, CA (Remote from NY/NJ area)

Utilized C#.NET, VB.NET, SQL Server, SQLite, VistaDB, Exchange Server

- Led a team of five in designing a multi-platform data-aggregation and reporting platform for both Windows and Mobile
- Released three separate titles based on that platform: InspectVue Residential, InspectVue Commercial and InspectVue Fire
- Clients of InspectVue include
  - US Military for inspecting the USS Ronald Reagan and military housing in Iraq
  - Allied Schools, an insurance training academy who chose InspectVue to be used as the teaching curriculum for their classrooms
  - Environmental Services Professionals, which after using our software for their bank-owned housing inspections during the financial crisis, agreed to purchase Porter Valley Software for \$5 Million dollars in cash and stock offerings.

May 2007  
to March 2009  
(1 Year, 10 months)

## Chief Software Architect / Team Leader

**Environmental Service Professionals** – Washington (Remote from NY/NJ area)

Utilized C#.NET, VB.NET, ASP.NET, SQL Server, SQLite, VistaDB, Exchange Server

(Note: Environmental Service Professionals eventually purchased Porter Valley Software, hence the overlap)

- Led a team of four in integrating the InspectVue platform (above) within ESP's existing architecture and website
- Converted their existing ASP website to ASP.NET, reducing their code by 80% while reducing planned development time by 50%
- Wrote custom SQL Queries for SOAP-based web services which were integrated into the InspectVue software for a complete end-to-end solution

April 2002  
to June 2005  
(3 Years, 2 months)

## Proprietor/Chief Software Architect

**Pen & Inc Handheld Software** – Succasunna, NJ

Utilized Microsoft eMbedded Visual C++, Win32, ASP.NET, SQL Server

- Created the successful startup Pen & Inc. Software which focused on handheld applications in the pre iOS/Android era.
- Code utilized custom C/C++ frameworks rather than MFC or ATL due to size constraints.
- Our flagship software, PenAgenda was selected as one of the presented titles by Handango, Inc. thanks to us earning a Top Seller award in our category.
- Personally designed, coded and hosted the company's website on a dedicated Windows Server, which I also managed.

July 2004  
to Dec 2004  
(6-month contract)

## Lead Developer

**Martindale Hubbell** – New Providence, NJ

Utilized C#.NET, Oracle 9i, Microsoft Word SDK

- Designed a fully-automated document queueing and processing system for the careers portal of Martindale.com
- Documents were stored in a distributed file system with metadata for the documents loaded into the database for querying, location, and retrieval

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## ADDITIONAL WORK EXPERIENCE (Summary)

Sept 2003  
to Dec 2003  
(4-month contract)

### ASP.NET Reporting Intranet Architect / Team Lead

**Johnson & Johnson** – North Brunswick, NJ

Utilized C#.NET, SQL Server, Crystal Reports, ASP.NET

January 2003  
to September 2003  
(9-month contract)

### ASP.NET Intranet Architect / Site Designer

**Roche Vitamins** – Parsippany, NJ

Utilized C#.NET, ASP.NET, SQL Server 2000

Apr 2002  
to Dec 2002  
(9-month contract)

### Senior Web Framework/Template Designer

**Lawyers.com** – New Providence, NJ

Utilized: Adobe Photoshop, Visual Studio.NET, TextPad, DHTML, JavaScript

July 2001  
to Dec 2001  
(6-month contract)

### ASP.NET Software Engineer

**WeightWatchers.com** – New York, NY

Utilized: Visual Studio.NET, Oracle 8i, Adobe Photoshop 6

Earlier Clients

**Econium**

**Morgan Stanley Dean Witter**

**Merck-Medco Managed Care**

**New York Music and Internet Expo**

**Sea-Land Corporation**

**Net2Phone**

**Viacom**

**Merck Pharmaceuticals (3x)**

**Chubb Insurance**

**Curtiss-Wright Flight Systems**