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| **Jon F. Nyman** | [nymanjon@gmail.com](mailto:nymanjon@gmail.com) |
|  | 801.528.1295 |

## Summary

Self-taught programmer/consultant with 3 years of experience with a passion for learning. Previous experience as an electrical engineer with 5 years experience in project management, test engineering, analog design, and worst case analysis, with a masters degree in digital signal processing. An initiator, self-motivated, quick learner, and works well with others.

**Programming Skills**

|  |  |  |
| --- | --- | --- |
| **Experienced** |  | **Familiar** |
| ***JavaScript*** | Vim | Docpad[[1]](#footnote-23) |
| ***HTML/CSS*** | Dashboard Design | Markdown (Pandoc[[2]](#footnote-24)) |
| VB.NET | Spreadsheet Design | C#.NET |
| F#.NET | MS VISIO | MATLAB |
| MS Excel VBA | MultiSim |

**JavaScript Libraries**

|  |  |  |
| --- | --- | --- |
| **Experienced** | **Contributed To** | **Familiar** |
| lodash.js | mithril.js | jquery.js |
| bilby.js | brackets.io |
| mithril.js |  |
| selectize.js |  |

**Engineering Skills**

|  |  |
| --- | --- |
| Analog Design | Electronic Packaging |
| IP Development | Reports and Documentation |
| Failure Analysis | Environmental Surveys |
| IC Development Analysis | Personnel Training |
| Competitive Analysis | Worst Case Analysis |

## Professional Experience

**Spreadsheet Budget & Consulting**[[3]](#footnote-26)**, Chino Valley, AZ**  
*Software Developer/Sole Proprietor 2009 - 2014*

* Created a [Timecard Web Application](https://github.com/jon49/Tiem) using JavaScript/HTML/CSS.
  + Uses [Pure.css](http://purecss.io/), Mithril.js, Lodash.js, Bilby.js, jQuery, Selectize.js
* Created an automated heat map system with core manipulation in Excel. Creates maps in Excel or HTML.
* [Pseudo-Static Site "Generator"](https://github.com/jon49/maws)
  + Uses Mithril.js, AWS S3 (although it doesn't necessarily need AWS)
* [Static Website](http://spreadsheetbudget.com.s3-website-us-east-1.amazonaws.com/)
  + Uses [docpad](http://docpad.org/)
  + No JavaScript 100% HTML/CSS
* Created free add-ins *Excel Time Card*, *KMyMoney to Excel*, *Scribble Filter*.

**Alliant Techsystems Corporation**[[4]](#footnote-33) **(ATK), Clearfield, UT**  
*Design Engineer 2007 - 2009*

* Analyzed worst case analysis circuitry for signal integrity for Ares I rocket.
* Tracked mass properties for avionics components.
* Managed flight safety subsystem team for keeping the rocket safe.
* Developed verification for flight safety specification.

**Rogers Corporation Durel Division**[[5]](#footnote-34)**, Chandler, AZ**  
*IC Development Engineer (2006 - '07) Intern (2003 - '06)*

Engineering Experience

* Initiated and developed intellectual property[[6]](#footnote-35) to keep competitive in EL market.
* Developed analog circuitry for specific applications in non-EL applications.
* Executed failure analyses for family of existing inverters to maintain customer satisfaction.
* Performed qualification, characterization, and analysis on new and existing inverters to maintain quality in products.
* Completed competitive analyses and evaluations to compare Rogers and competitive products.
* Put ICs in various packages for competitive packaging.
* Created and organized datasheets, failure analysis reports, assembly and test procedures.
* Reviewed and prepared environmental reports and surveys to retain customers.

Interpersonal Experience

* Responded to customer inquiries within 1 day to achieve 100% customer satisfaction.
* Mocked up and optimized products for customer evaluation.
* Assisted in training engineering assistants.
* Trained sales and application engineers.

## Education

Arizona State University, Tempe, AZ  
Master of Science in Engineering - Electrical - Digital Signal Processing - 2007

Self-taught Programming

|  |  |
| --- | --- |
| **Books Read** |  |
| [Code Complete](http://www.amazon.com/Code-Complete-Practical-Handbook-Construction/dp/0735619670)[[7]](#footnote-39) | [Excel 2010 Formulas](http://www.amazon.com/Excel-2010-Formulas-Spreadsheets-Bookshelf/dp/0470475366) |
| [Thinking Forth](http://www.amazon.com/Thinking-Forth-Leo-Brodie/dp/0976458705)[[8]](#footnote-42) | [Excel 2002 Vba Programmer's Reference](https://www.goodreads.com/book/show/861942.Excel_2002_Vba_Programmer_s_Reference) |
| [Professional Excel Development](http://www.amazon.com/Professional-Excel-Development-Definitive-Applications/dp/0321508793) | [Pivot Table Data Crunching](https://www.goodreads.com/book/show/418165.Pivot_Table_Data_Crunching) |
| [Mastering Microsoft Visual Basic 2010](http://www.amazon.com/Mastering-Microsoft-Visual-Basic-2010/dp/0470532874) | [Teach Yourself Visual Basic 2008](https://www.goodreads.com/book/show/3138810-sams-teach-yourself-visual-basic-2008-in-24-hours) |
| [Sams Teach Yourself SQL in 10 Minutes](https://www.goodreads.com/book/show/173346.Sams_Teach_Yourself_SQL_in_10_Minutes) | [Excel Advanced Report Development](https://www.goodreads.com/book/show/1035746.Excel_Advanced_Report_Development) |
| [Excel 2010 Power Programming with VBA](http://www.amazon.com/Excel-Power-Programming-Spreadsheets-Bookshelf/dp/0470475358) | [Eloquent Javascript](http://eloquentjavascript.net/contents.html) |
| [Functional JavaScript](http://www.amazon.com/Functional-JavaScript-Introducing-Programming-Underscore-js-ebook/dp/B00D624AQO) | [JavaScript Allongé](https://leanpub.com/javascript-allonge) |
| [Human JavaScript](http://humanjavascript.com/)[[9]](#footnote-55) |  |

## Personal

* Organizer of [Prescott Software Developers Meetup Group](http://prescottprogrammers.com/)

1. Node.js Static Site Generator [↑](#footnote-ref-23)
2. Write in Markdown convert to PDF, HTML, ODT, DOCX, etc. [↑](#footnote-ref-24)
3. [Spreadsheet Budget & Consulting](www.SpreadsheetBudget.com) creates applications or add-ons to be used with Microsoft Excel. Also, consulting work is done for specific applications for other companies. [↑](#footnote-ref-26)
4. ATK Launch Systems is the world's top producer of solid rocket propulsion systems, a leading supplier of engineering and technical services, and has extensive experience supporting human and space payload missions. [↑](#footnote-ref-33)
5. A manufacturer of high-performance specialty material products, serving a diverse range of markets. Durel Division is a high volume manufacturer of patented electroluminescent lighting (EL) and EL drivers (low voltage DC to high voltage AC inverters). [↑](#footnote-ref-34)
6. [Patent Application US20080197787](http://www.google.com/patents/US20080197787) [↑](#footnote-ref-35)
7. Partially read and/or currently reading. [↑](#footnote-ref-39)
8. Partially read and/or currently reading. [↑](#footnote-ref-42)
9. Partially read and/or currently reading. [↑](#footnote-ref-55)