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

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## Summary

Self-taught programmer/consultant with  $3\frac{1}{2}$  years of experience. 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
VB.NET	C#.NET
F#.NET	HTML/CSS
MS Excel VBA	Docpad <sup>1</sup>
Dashboard Design	Markdown (Pandoc <sup>2</sup> )
Spreadsheet Design	Vim
MS VISIO	MATLAB
MultiSim	JavaScript

## 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<sup>3</sup>, Chino Valley, AZ

*Software Developer/Sole Proprietor 2009 - 2014*

- Created an automated heat map system with core manipulation in Excel. Creates maps in Excel or HTML.
- Created free add-ins *Excel Time Card*, *KMyMoney to Excel*, *Scribble Filter*.

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<sup>1</sup>Node.js Static Site Generator

<sup>2</sup>Write in Markdown convert to PDF, HTML, ODT, DOCX, etc.

<sup>3</sup>[Spreadsheet Budget & Consulting](#) creates applications or add-ons to be used with Microsoft Excel. Also, consulting work is done for specific applications for other companies.

**Alliant Techsystems Corporation<sup>4</sup> (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<sup>5</sup>, Chandler, AZ**  
*IC Development Engineer (2006 - '07) Intern (2003 - '06)*

Engineering Experience

- Initiated and developed intellectual property<sup>6</sup> 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.

Interpersonal Experience

- 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 maintain 100% customer business.
- 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

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<sup>4</sup>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.

<sup>5</sup>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).

<sup>6</sup>[Patent Application US20080197787](#)

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## Books Read

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<a href="#">Code Complete</a> <sup>7</sup>	<a href="#">Excel 2010 Formulas</a>
<a href="#">Thinking Forth</a> <sup>8</sup>	<a href="#">Excel 2002 Vba Programmer's Reference</a>
<a href="#">Professional Excel Development</a>	<a href="#">Pivot Table Data Crunching</a>
<a href="#">Mastering Microsoft Visual Basic 2010</a>	<a href="#">Teach Yourself Visual Basic 2008</a>
<a href="#">Sams Teach Yourself SQL in 10 Minutes</a>	<a href="#">Excel Advanced Report Development</a>
<a href="#">Excel 2010 Power Programming with VBA</a>	<a href="#">Eloquent Javascript</a>
<a href="#">Functional JavaScript</a> <sup>9</sup>	

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## Personal

- Organizer of [Prescott Software Developers Meetup Group](#)

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<sup>7</sup>Partially read and/or currently reading.

<sup>8</sup>Partially read and/or currently reading.

<sup>9</sup>Partially read and/or currently reading.