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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	JavaScript
F#.NET	HTML/CSS
MS Excel VBA	Docpad[1]
Dashboard Design	Markdown (Pandoc[2])
Spreadsheet Design	Vim
MS VISIO	C#.NET
MultiSim	MATLAB

JavaScript Libraries

Experienced	Familiar
lodash.js	mithril.js
bilby.js	jquery.js
selectize.js	dropbox.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

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[1] Node.js Static Site Generator
[2] Write in Markdown convert to PDF, HTML, ODT, DOCX, etc.

Professional Experience

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

- Created a time card static application using JavaScript/HTML/CSS.
- 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*.

Alliant Techsystems Corporation[4] **(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]**, Chandler, AZ**
IC Development Engineer (2006 - '07) Intern (2003 - '06)

Engineering Experience

- Initiated and developed intellectual property[6] 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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[3]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.

[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.

[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).

[6]Patent Application US20080197787

Books Read

Code Complete[7]	Excel 2010 Formulas
Thinking Forth[8]	Excel 2002 Vba Programmer's Reference
Professional Excel Development	Pivot Table Data Crunching
Mastering Microsoft Visual Basic 2010	Teach Yourself Visual Basic 2008
Sams Teach Yourself SQL in 10 Minutes	Excel Advanced Report Development
Excel 2010 Power Programming with VBA	Eloquent Javascript
Functional JavaScript	JavaScript Allongé[9]

Personal

- Organizer of Prescott Software Developers Meetup Group

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[7]Partially read and/or currently reading.
[8]Partially read and/or currently reading.
[9]Partially read and/or currently reading.