Jason Bens

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Biography

I'm an electrical engineer who loves the dynamic nature and fast pace of product design. My favourite projects are those that allow me to learn a new technology and apply it in an unusual way.

Skill Summary

Competencies		**Programming**	**Tools**
Schematic Capture	Test Automation	C/C++	Altium
PCB Layout/Fab	Prototyping and Test	Python	Allegro/Orcad
Analog/Digital Design	Soldering and Rework	LaTeX	Spice
Electromagnetic Compliance	Circuit Simulation	ARM Assembly	NI LabView

Experience

Electrical Engineer Seattle, Washington
Pensar Development *August 2015 - September 2018*

- Designed several iterations of a USB hub PCB for a medical ultrasound device to meet client requirements.
- Spearheaded the EMC effort to reduce RF emissions from a medical ultrasound device below IEC-60601-1 emissions requirements.
- Validated boards against requirements and design intent, and found the root cause of any failures.

Electrical Engineer Mukilteo, Washington
Electroimpact *September 2014 - August 2015*

- Engaged in all phases of the product lifecycle management of aircraft assembly automation equipment for leading aerospace manufacturers such as Boeing.
- Acted as a key point of contact during on-site functional testing and support.
- Developed electrical subsystems of larger assemblies to contract specifications and in compliance with national codes.

Education

Bachelor of Engineering in Electrical Engineering University of Victoria
GPA: 7.58/9.00 *Graduated 2014*

- Specializations in Computational Intelligence and Electromagnetics & Photonics

Diploma in Electronics Engineering Technology Southern Alberta Institute of Technology
GPA: 3.82/4.00 *Graduated 2011*

- Graduated with Honours.

Projects

Medical Ultrasound Device

- Designed USB 3.0 and USB 2.0 hub boards, emphasizing signal integrity due to electrically noisy environment.
- Exhaustively investigated cause of EMC failures, culminating in several modifications and the addition of an inline power filter.
- Instrumented hub boards for automated testing with Labview/NI Teststand.

Automated Fiber Placement Machine

- Developed sensor system for monitoring safety brakes along multiple axes of motion.
- Interfaced CNC with various devices for realtime monitoring and control of mobile gantry for carbon fiber placement.
- Designed 24V, 120V, 208V, and 480V AC and DC power distribution systems.