Link Simpson
simpson_link@hotmail.com
250-624-1728

Skills Summary

An accomplished electronics design engineer in all stages of product development from conception to delivery. I have developed strong skills in analog, digital, microcontroller and software design. I have hands-on experience on a variety of applications in the audio, military, aviation, industrial and consumer markets.

Work Experience

Electrical Coordinator, Ridley Terminals Inc,
(June 2007 to Present)

Currently I manage the electrical department of a busy coal terminal in northern British Columbia. This involves supervising the electrical staff, implementing projects, creating ISO reports, providing technical guidance for management, working with the legal department on the RFP process, and researching future developments.

Design Engineer, International Water-Guard Inc,
(March 2005 to June 2007)

I designed electronics for airplane based water purification systems.
This includes AVR based controllers, user interface panels, switching power supplies, power condition and filtering, AC and BLDC motor control, water level sensors, UV lamp ballast controllers and UV sensor design.

Design Engineer, Dycor Technologies,
(August 2002 to March 2005)

After finishing my engineering degree, I designed electronics and software for biological warfare detection equipment. This included user interface panels, serial data multiplexers, highly sensitive optical amplifiers with synchronous demodulation, BLDC motor control, PIC based controllers, 8051 based controllers, industrial weight scales with 24 bit resolution, LED light sources for plate counting, and interconnect boxes for complex naval based biological detection hardware.

Design and Test Engineer, Innovative Circuit Technology,
(January 2000 to June 2000)

Directly after finishing BCIT, I designed, tested and troubleshot circuits for various switch mode power supplies and power converters.

Test Engineer, Dorigo Systems,
(Summer1998 and Summer 1999)

During the summers while attending BCIT I repaired and tested video and audio circuits. As well I assembled wiring harnesses and preformed final inspections.

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Specific Skills

Management Skills

- Experience with RFP Generation
- Skill with complex staff scheduling
- Dedicated and Determined Project Management Abilities
- Excellent Communication skills
- Proficient Technical Writing Abilities
- Detailed Statistically and Economical Analysis

Design Skills

- Power Supplies
- Control Systems
- Analog Filters and Amplifiers
- Acoustic Modeling
- Embedded Systems
- Basic RF Design
- DSP
- Video Design
- Fuzzy Logic
- Digital Circuits
- VLSI

Software Skills

- ICCAVR
- Altium Designer 6 /Protel 99SE
- Circuit Maker/Trax Maker
- CCS Complier
- Keil Complier
- C/C++
- MPLAB
- MATLAB
- Microsoft (Word, Excel, PowerPoint, Project)

Educational Background

Electrical Engineering Degree (honors) (June 2002)	Lakehead University,
Electronic Engineering Technology Diploma, (May 2000)	BCIT,
Sociology Degree, (May 1998)	Simon Fraser University,