

camforman@gmail.com  
306.290.7849 (c)

916 Victoria Avenue  
Saskatoon, SK  
S7N 0Z6

# CAM FORMAN, B. Eng

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## **PROFESSIONAL ENGINEERING EXPERIENCE**

### **Vecima Networks, Saskatoon, SK – Design Engineer** Nov 2005 – Present

Designs, manufactures, and sells products that enable broadband access to cable, wireless, and telephony networks and provides rapid and cost-effective bridge connections to end-users. Their core expertise is radio frequency (RF) technology and the development of products that incorporate sophisticated software for high-speed digital signal processing, control, and compensation functions for high-level digital modulation.

- Responsibilities include hardware design, board layout, and review.
  - Hardware schematic design incorporating
    - Microprocessors
    - FPGAs by Xilinx and Altera
    - RF circuits
    - Power supplies (switching and linear)
    - GSM, CDMA and GPS modules
- PCB layout and design review in PADS 2005 and V9
- JTAG test implementation using tools from JTAG Technologies
- Board bring-up and troubleshooting
- Part Sourcing and Procurement
- Relationship building with part suppliers

### **IDERS Inc., Winnipeg, MB – Design Engineer**

Apr 2001 – Nov 2005

Internship Program May 1998 – Sept 1999

Casual & Summer Terms 1999 – 2000

A contract engineering and manufacturing company whose origins are in point of sale equipment. They rapidly diversified into Retail Transport Systems, Industrial Controls, Smart and Magnetic Stripe Card Processing Systems, Single-Board Computing Platforms, Currency Validation, and Military & Telecommunications Systems markets.

- Responsibilities included hardware design, software design, FPGA firmware design, and production engineer.
  - Hardware and software design
    - Microchip PIC family
    - Analog devices ADSP218x
    - Texas Instruments MSP430
- Design of digital, analog, and mixed signal schematic design
- Part Sourcing, Crossing and Procurement
- Xilinx FPGA firmware design of microprocessor peripherals using VHDL
- Investigation of product performance in the field
- Creation of user manuals and other documentation
- C Programming using Borland Builder
- Troubleshoot and repair of prototypes, production fallout, and warranty
- Quality control and improvement for SMT and THT manufacturing process

## EARLIER WORK EXPERIENCE

<b>Home Health Care Centre – Service Technician</b> Electrical and mechanical troubleshooting and testing	Jun – Aug 1997
<b>The Manitoba Teachers’ Society</b> Security, reception duties, snow removal, lawn & yard maintenance	1989 – 1998
<b>MayDay Personnel (1992) Inc. - Industrial Overload Worker</b>	1995 – 1997

## EDUCATION

<b>University of Manitoba</b> Ted Glass Memorial Award and best engineering thesis, “A Custom Mirocontroller Architecture”	B. Engineering in Computer Science	(complete) 2001
<b>University of Winnipeg</b>	Bachelor of Science	(first year) 1993
<b>Sturgeon Creek Collegiate</b> Chartered Accountants of Manitoba Certificate of Merit and School Board Academic Award Class focuses in Biology, Physics, Chemistry, Computer Science, and Mathematics	Senior Matriculation	(complete) 1992

## INTERESTS & ACTIVITIES

- Computers
  - Designed and implemented customized database for Air Canada maintenance base to track corporate laundry
  - Experience in DOS, Linux, Windows
  - Programming in Python, Basic, C, Pascal, Assembly Language, Visual Basic, and Delphi
- Hobby Electronics
  - Audio amplifiers, time lapse photography, home automation, embedded webpages, begun building a CNC Mill
- Outdoor Activities
  - Camping, canoeing, swimming, biking, wind surfing, hiking, snow boarding, skiing, and running
- Wood and Composite Crafts and Repair
- Welding
- Toastmasters

**References gladly provided upon request**