

Henk vanBruggen

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Profile

I have many years of software development experience. I work well independently and am a productive member in team environments, excelling in leadership roles. I have experience developing stand alone software as well as software integrated into machinery through PLC's, micro controllers and various other electronic interfaces.

Skills

Computer Programming

I have studied many different computer languages. I am most familiar with C/C++. I am also well versed in the following:

- Pascal (Borland Delphi)
- Objective C (Mac OS X Cocoa)
- Dynamic C (Z-World micro controllers)
- Assembly (Intel, Zilog, Motorola, Rockwell)
- SQL (SQL Server, MySQL)
- Basic (several flavours)
- HTML, CSS, Javascript
- Perl, PHP
- Unix scripting (bash, etc)
- DOS scripting
- Apache configuration
- Regular Expressions

I have a passing familiarity with many others. I learn very quickly, so any language can be available to me.

Electronics

Through my education and work experience I have gained the following electronics related skills:

- Design and program micro computer and video systems.
- Design and analyze analog and digital circuits, small and large signal amplifiers.
- Design and analyze linear and switching power supplies.
- Design and analyze three phase, motor control, lighting layouts and feeder / branch circuits.
- Program PLCs (GE Fanuc, some Allen Bradley).
- Electrical code requirements for motor control, lighting and feeder / branch circuits.
- Motor theory (AC induction (SCIM/WRIM), DC, Synchronous).
- Use of electronics test equipment such as oscilloscopes, logic analyzers and multimeters.

Computer Usage

I am an experienced user of Microsoft Windows, Macintosh's OS X, Linux, VxWorks and NetWare, including many of their desktop applications. Successfully completing Novell's CNE training gave me the ability to design, implement, maintain and administer computer networks on each of these platforms.

Experience

Technical Lead / Software Architect,

Coe Newnes McGehee Ltd., Salmon Arm, BC

1997-Present

I started here as one of the software developers of a sawmill reporting system. This system interfaced directly with the PLCs that run the mill. I moved to lumber optimization, again as a software developer. In this project I advanced to a senior developer, then as technical lead and finally as a software architect.

Lumber optimization involves software that uses various scanning technologies including laser profiling cameras, x-ray detection and vision based cameras to acquire lumber defect information. This scanned information is then used to find an optimal cutting solution that maximizes value return while minimizing trim loss.

Besides writing software my responsibilities include designing feature additions based on customer requirements, ensuring that these feature additions are consistent with the architecture of the overall system, guide other developers in the implementation of these software designs and mentor other developers.

Programmer/Owner,

Modern Programming Solutions

1995-2001

I started a company around a software package I developed. The package was designed for the forest industry to simplify mapping operations centered on plotting cruise plans inside of section traverses. To accomplish this I studied of industry requirements and built beta testing relationships in the industry. I also became involved in the sales aspect of the business.

Systems Analyst,

Ministry Of Forests, McBride, BC

1996

Besides the regular service technician duties for the office, my responsibilities included planning future project enhancements to office systems such as implementing improvements to the GIS system and upgrades to existing computer equipment.

Service Technician,

Various Firms

1991-1996

I have worked for various computer and office equipment sales firms as a service technician. In this role I was responsible for maintaining equipment both in the shop and at customer locations. I developed a professional attitude towards, and maintained good working relationships with my customers. I was also required to keep my equipment knowledge up to date. These positions required the ability to maintain and repair office equipment and computers, as well as design, implement, maintain and administer computer networks in both Windows and Netware environments.

Education

British Columbia Institute Of Technology, Burnaby, BC

Power Electronics Technology

1994

Computer Control Electronics Technology

1991

Novell

CNE (Certified Network Engineer)

1996

Prince George College (high school)

Won the Computer Science achievement award in both grades 11 and 12.

1986