Brian Scott Lindell

brian.lindell@softwareforhire.com
360 Pierce Avenue
Suite 209
North Mankato, MN 56003
507-779-7052

Education	Bachelor of Science Degree in Computer Science Iowa State University, Ames, Iowa, May 1984

Experience

Software For Hire

CEO - Software For Hire, Inc. (www.softwareforhire.com)
November 2001 - Present
Software design and development: Real time embedded software/firmware, Windows, Windows CE, Windows Mobile, MQX RTOS, National Instruments Labview (CLAD ceritified), Codewarrior, IAR Embedded Workbench, Visual Studio and other platforms.

Software Development Manager - BlueEarth, LLC - Cokato, MN
March 1998 – November 2001
Software Development Manager at Blue Earth Research. Responsibilities include management of all PC software development efforts, including, design, development and implementation of Microsoft Visual Basic and Visual C++ software applications, Windows CE 3.0 (PocketPC) Applications, and design, development and implementation of embedded software for Intel 805X, ATMEL 89C5X, Dallas 80C320, Phillips 87LPC764, Winbond W77E58, and Temic 89C51RD2 Micro-controllers.

Information Technologies Manager with responsibilities for installation and support of Microsoft NT 4.0 Server, Novell Netware 4.12 File Server, Exchange Server 5.5, Internet NAT/Proxy Server, TCP/IP configuration, 35 workstations (NT, Win98, Win95), 5 network printers, 3 network modems, and other network hardware and software configurations. Design, specification and installation of wiring and electronics for the 10/100 Fast Ethernet LAN. MAS90 and Open Systems Accounting support. Installation and Support of Nortel Norstar Phone System.

Sr. Programmer/Analyst - CWC, Inc. - Mankato, MN
November 1996 – March 1998
Design develop and implement Microsoft Visual Basic and Visual C++ applications for data manipulation and SQL database access.. Design, develop and implement data integration software using third party tools, custom applications and CWC applications. Work with customers to integrate their pricing and production configuration information into a format compatible with CWC sales force automation applications.

Sr. Software Engineer - Weigh-Tronix, Inc. - Fairmont, MN
July 1987 – Nov 1996
Design develop and implement Microsoft Visual Basic and Visual C++ software applications on 80x86/Pentium computers. Design, develop and implement embedded control systems for Intel 80x86, 8051, 8048, Motorola HC11, and Texas Instruments 9995 processors. Token Ring LAN installation and administration (250 user). Novell Netware 3.11 and 4.1 System Manager. AutoCAD installation and maintenance. PCAD PCB Software Support. PC Specialist for commercial hardware and software applications. Member of Information Technology Team which determines the strategies and use of PC's and Networks at Weigh-Tronix.

Systems Engineer - Fisher Controls - Austin TX
May 1984 - July 1987
Contract Programming - Bussard-Dikis - Des Moines, IA
January 1984 - May 1984
Programmer - Cyberia, Inc. - Ames, IA
May 1983 - November 1983
Programmer - Decision Data, Inc. - Ames, IA
June 1981 - May 1983

Systems	Embedded Real-Time OS, Platform Builder 5.0, Windows Mobile, CE, XP, 2K, ME, 9X, DOS.
Languages	Microsoft .NET, VB, C#, C/C++, LUA, MFC, National Instruments Labview 7, Labview 8, Pascal, Fortran, Forth, Basic, PL/M, Assembly Language

Winland Electronics – User Interface and Main Controller
- o Freescale Coldfire MCF5213 Processor – Main Controller
- o Freescale HC08 Processor – User Interface
- o MQX Real Time Multi-threaded Operating System
- o Codewarrior Development system
- o Inter-module communication using CAN
- o Sensor inputs, A/D conversion, Relay Outputs, PWM, Timers and Interrupt control.
- o Hydraulic and electric motor control.

Teneroc, LLC – Labview Data Collection
- o Data collection and Real Time graphing application developed using Labview v8.6.
- o Real Time Graph and archival log of all sensor data.
- o Temperature, Pressure, Mass Flow, and other sensors to an NI cDAQ 9172 Chasis with 9211, 9263, 9205, and 9219 modules

Winland Electronics – EA800 Environmental Monitoring and Alarming
- o Freescale Coldfire MCF5328 Processor
- o MQX Real Time Multi-threaded Operating System
- o Codewarrior Development system
- o A/D conversion, Relay Outputs, USB
- o 2008 Security Industry Association (SIA) New Product Showcase Product Achievement Award

Avery Weigh-Tronix – Windows CE 5.0 Device
- o Windows CE 5.0 Industrial Control Application. developed using Platform Builder and MS Visual Studio .NET 2005
- o Support for Compact Flash, USB Host and Device, TCP/IP, and Touchscreen User Interface

Avery Weigh-Tronix – Windows .NET Applications
- o Visual Studio .NET applications – VB.NET and C#
- o .NET Compact Framework – VB.NET and C#
- o Client/Server with TCP/IP communications
- o National Instruments Measurement Studio
- o National Instruments DAQ cards
- o Data Acquisition

The Toro Company – Windows Mobile Barcode Scanner
- o Windows Mobile User Interface Application. developed using Microsoft Visual Studio .NET 2005
- o Symbol MC50w Pocket PC barcode scanner
- o XML transfer of data between local database and remote web services using HTTP over SSL
- o SQL CE database storage on Pocket PC

Herdstar L.L.C. – Pocket PC Remote Data Collection Interface
- o Windows CE Pocket PC User Interface Application. developed using Microsoft Visual Studio .NET 2005
- o RS232 and BlueTooth interfaces to data collection system

NK Biotechnical – National Instruments Labview 8.0 Test Application
- o Windows XP interface to 6 axis real time wind tunnel sensor developed using National Instruments Labview 7.0
- o Developed native Labview driver for Data Acquisition.
- o Configurable data acquisition with graphing and reports

Herdstar L.L.C. – PC Interface to Sorting Scale
- o Windows 2K/XP User Interface Application. developed using Microsoft Visual Studio .NET 2005
- o RS232 Interface
- o Automatic Data Updates on a time based schedule
- o Crystal Reports report generation

S&S Cycle, Inc – Real-Time PC Interface to Ignition System
- o Windows 98/ME/NT/2000/XP User Interface Application. developed using Microsoft Visual Studio .NET 2003
- o RS232 to J1850 interface
- o Real-Time update of guages and indicators
- o Printed reports of configuration data
- o File Storage of configuration files

S&S Cycle, Inc – Ignition System for V-Twin Engines
- o Motorola MC68HC912B32 embedded application to control ignition timing with knock compensation.
- o Cosmic Software HC12 Development System
- o Noral HC12 BDM debugger
- o Interrupt driven, Hard Real time control (250 microsecond limit on control loop)
- o SPI, PWM, ADC, Timer IC/OC, SCI, BDLC to J1850, and Fuzzy Logic interfaces and routines

Link Application for Remote access to Environmental Control Systems
- o Windows 95/98/NT/2000 Application
- o Microsoft Visual Basic Professional 6.0
- o Microsoft Visual C++ (Visual Studio 6.0)
- o Microsoft Access 97 (End User Custom Data Access)
- o Crystal Reports Professional (Historical Reporting)
- o Pinnacle Graphics Server (Historical Data Graphing)
- o Sax Comm Objects (TAPI/RS232/Modem)

Embedded/Real-Time Control systems
- o Keil and Franklin 8051 Development Systems.
- o Intel 8051, ATMEL 89C5X, Dallas 80C320, Phillips 87LPC764, Temic 89C51RD2, and Winbond W77E58.
- o Signum and Ceibo In-Circuit Emulators
- o Relays, A/D converters, Serial EEPROM, Bank Selected Memory Access, Interrupt driven LED and LCD displays. Keypad interfaces, Remote Diagnostics via RS232.
- o Fast paced projects (4-12 weeks start to finish)
- o Long term multi phase projects (2-3 years / ongoing)

Virginia DOT Truck Weighing and Citation System
- o Microsoft Visual C++ 4.1
- o Microsoft DAO
- o Crystal Reports Professional 4.5
- o Visual Basic Professional 4.0
- o Windows NT 3.51
- o Comtrol Hostess 8 port Serial I/O card
- o Greenleaf Comm++ 3.0
- o RS-232 and RS-485 communications to Electronic Scales and Terminals.
- o Real-Time Scale interface and control.

Other Projects/Experience
- o Barcode Printer/Label Printer Interfaces
- o Barcode Scanner Interfaces
- o Remote Access Systems and Software
- o Database Systems (SQL Server, MSDE, Access, FoxPro, Dbase III, IV, Paradox, ODBC)
- o Multiport Serial cards and communications libraries
- o Device Interfaces (TCP/IP, I^2C, SPI, RS-232, RS-485, RS-422, CAN, J1850, CRC protocols, etc.)
- o MS Office Suite, MS Project, MS Visio