



# Network Harbor, inc.

## Network Harbor, Inc. is:

- A Microsoft Gold Certified Development Partner
- A Microsoft Early Innovator Partner and one of the first ten companies internationally to have an application approved as “Certified for Vista”
- Participating member of NIST “National Institute of Standards and Technology” conferences
- Member of AFCEA (Armed Forces Communication and Electronics Association)

## Specializing in:

- Custom Software Application Development
- Embedded Level Development
- Printed Circuit Board Design
- Production and Assembly Management

## Security Products & Applications

- Complete Line of Security Integration and Management Software
- ◆ Lighthouse™ Integration / Unification Platform
- ◆ Lighthouse™ Graphics Package

# Network Harbor Development Team

Network Harbor Inc. is comprised of a team of professionally degreed engineers that are accredited with the highest accolades from their individual universities. In addition to staff members that hold Bachelors and Master Degrees in Computer Science and Computer Engineering our staff boasts the following additional achievements:

- Microsoft Certified Professionals in SQL Server Technology
- Windows Mobile/PocketPC/PDA and XML Web Services specialists
- Microsoft Office and Business support software development
- Certified Network Server Administration for VoIP systems
- Proficiency and Administration of Ubuntu Linux, Fedora (Red Hat) & OpenSuse
- Senior Technology Directors of Software Instruction & Teaching with development of interactive learning.
- Associate Participating Members of NIST Security Conferences

## Additional Experience

- IT Management and support
- Advanced Machine Learning and Artificial Intelligence
- Data Mining and Associated Applications
- Cluster and Grid Computing
- Cryptography and Crypto analysis
- CPU Architectural Background for code optimization
- Database Design
- Network Security Analysis
- Application Security Analysis

# Embedded Systems Development

## General Services:

- ◆ Embedded Systems Design
- ◆ Embedded Software Development
- ◆ Network Programming
- ◆ Feedback Control Systems Design

## Electrical Engineering Services:

- ◆ PCB Layout :( DFM, DFT)
- ◆ ROHS Compliance for PCB's
- ◆ PCB Assembly
- ◆ Signaling Integrity Analysis
- ◆ Digital Timing Budgets
- ◆ Switch Mode Power Supplies
- ◆ Power Over Ethernet (POE)
- ◆ Board Level Power Distribution Systems
- ◆ Analog signal quality control and noise reduction
- ◆ Audio Amplifiers and Microphone Preamp Design
- ◆ RF Circuit Design

## Embedded Software Services:

- ◆ Device Driver Programming
- ◆ Linux Kernel Modification and testing
- ◆ Linux Kernel Drivers
- ◆ Proprietary Kernel Module Drivers
- ◆ Microcontroller Programming 8, 16, and 32 bit
- ◆ DSP Programming
- ◆ Digital Image Processing

## Digital Hardware Services:

- ◆ FPGA Circuit Design and Configuration
- ◆ DSP Programming
- ◆ Digital Logic Design
- ◆ VLSI Design

# Embedded Systems Development Cont'd

## Programming Languages, HDL Languages etc.:

- ◆ C
- ◆ C++
- ◆ Visual Basic
- ◆ Visual C#
- ◆ .NET Framework
- ◆ .NET Compact Framework
- ◆ COM, DCOM
- ◆ Assembly (Real Mode x86, Protected x86, HC12, ARM9, PIC)
- ◆ VHDL
- ◆ Verilog HDL

## Tools Used:

- ◆ Mentor Graphics PADS
- ◆ Mentor Graphics Renoir/HDL Designer
- ◆ Mentor Graphics Modelism
- ◆ Xilinx ISE
- ◆ Microsoft Visual Studio 2005
- ◆ GCC
- ◆ Matlab
- ◆ UML Design and Documentation

## Network Communications and Bus Protocols

- ◆ TCP/IP, UDP, DHCP, RTP, RTCP, SCTP, SRTP, SIP etc.
- ◆ RS232, RS485, TIA422
- ◆ ZigBee
- ◆ Bluetooth
- ◆ USB
- ◆ SPI, 12C, SSI
- ◆ PCMCIA
- ◆ PCI
- ◆ PCI-X
- ◆ MMC
- ◆ NMEA-0183 GPS Data

# Software Development

## General Services:

- ◆ Packaged Software Solutions
- ◆ Custom Software Application Development
- ◆ Full Cycle Application Development
- ◆ Rapid Application Development
- ◆ Cryptography & Crypto Analysis
- ◆ Data Mining

## Programming Languages Used:

- ◆ C/C++
- ◆ C#
- ◆ J#
- ◆ Smalltalk –80
- ◆ ASP/ASP.NET
- ◆ .NET Framework
- ◆ VB/VB.NET
- ◆ ASP/ASP.NET
- ◆ Java
- ◆ JavaScript
- ◆ VB Script
- ◆ PHP
- ◆ JSP
- ◆ PERL
- ◆ COM
- ◆ DCOM
- ◆ ML, APL, Maude, Corba
- ◆ LEX/FLEX/YACC

## Context Languages

- ◆ HTML/DHTML
- ◆ XML
- ◆ XAML
- ◆ XSL
- ◆ PostScript
- ◆ LaTeX

# Software Development Cont'd

## Real Time Streaming Protocols:

- ◆ SRTP
- ◆ SIP
- ◆ SCTP
- ◆ UDP
- ◆ RTCP
- ◆ IGMPv3

## Tools Used:

- ◆ MTFS (Microsoft Team Foundation Server)
- ◆ Visual Studio 2003/2005/2008
- ◆ FxCOP
- ◆ MS-BUILD
- ◆ Dotfuscator
- ◆ Installshield
- ◆ Microsoft MSI
- ◆ Enterprise Architect
- ◆ UML (Visio & EA)