Jeff Ward

2921 Palace Place
Murfreesboro, Tennessee 37129

wardjk@comcast.net
tel: 615.896.3140

Portfolio: http://jeffward.me

Professional Profile

Innovative and efficient developer with over 20 years of experience in business and engineered solutions. Possesses an in-depth understanding of software and hardware interfacing. Regularly performs every aspect of software development from inception through the release of products, including specification, testing, accurate and understandable documentation, marketing, and providing on-site startup and training. Developed customized software for hundreds of clients, over 30 of which are Fortune 500 companies.

Education

- Fellowship for full-time graduate studies in Engineering Science at the University of Tennessee Space Institute, 1991-1992
- B.S. Physics, graduated cum laude, Middle Tennessee State University, minor in Computer Engineering Technology, 1989-1991
- U.S. Naval Nuclear Power School, Electronics Technician School Honor Graduate, 1983-1985
- Specialized Training: VB.NET, ASP.NET, Guerrilla XML, Guerrilla VB, SQL Server 7, SQL Server 2000, Oracle 8, Microsoft Project, Cognex machine vision systems, Modicon PLC Programming, CMPL Programming, Comprehensive PowerLogic Course, Advanced Monitoring and Data Reporting, Advanced Power Quality & Disturbance Monitoring, SMS Administrator, OSHA, Electrical Safety, Product Liability

Experience

Self-Employed, Murfreesboro TN   **Apr 2010 – Present**

Developing internet-based, client-server, and desktop software solutions for small businesses. Primary projects are web apps for managing businesses such as for e-commerce, billing, patient tracking, and student scheduling.

Systems Developer   **Feb 2004 – Mar 2010**
MT&L Corp., Nashville TN

Provided office and industrial automation for a manufacturer of magnetically encoded and personalized products such as credit cards. Developed B2C and B2B eCommerce systems for the manufacturing, fulfillment, and shipping of products. Developed EDI systems for exchanges with banks. Developed a unified multi-user system integrating different manufacturing processes including incoming data transformation, job control, scheduling, billing, logging, optical product detection, machine vision for logging and quality control, production reconciliation, and machine data exchange. Credited with reducing manufacturing start-up errors from >20% to <0.5%. Designed and implemented an automatic printing and application process with ten times the speed of the previous system. Trained and mentored others in the use of various software applications and languages.

Software Engineer/Application Engineer   Feb 1993 - Nov 2001
Square D - PowerLogic, LaVergne TN
Developed software applications and engineered solutions for a large manufacturer of instrumentation and control equipment for industrial automation. Authored over 20 production and custom software applications used by hundreds of clients. Typical applications ranged from PC desktop programs for integrated hardware systems requiring communications and data reporting to large complex utilities monitoring and energy management billing systems. The applications perform tasks such as converting, displaying, and logging data from peripheral and remote devices, displaying graphics, remotely configuring devices, and reporting. Developed numerous products for the integration of PCs with instrumentation and control equipment for desktop and internet/intranet applications. Developed custom firmware for proprietary devices. Performed on-site startup, training, and technical support. Trained others in the use of multiple technologies and languages.

Software Developer   1994 - 1995
Tennessee Nuclear Corporation
Collaborated with a hardware developer to create a Magnetic Resonance Imaging (MRI) workstation for medical use. Developed software to interface with MRI hardware and generate graphics for display. Documented hardware design and interfacing.

Chief Engineer   1991-1993
WMTS Radio, Murfreesboro, TN
Maintained, repaired, modified, designed, and constructed audio and communication equipment.

Research Assistant   1990
Vanderbilt University Particle Accelerator Laboratory
Conducted experiments using the accelerator, ultra-high vacuum system, spectrometers, and support equipment. Developed software to analyze data collected by monitoring equipment. Operated, modified, installed, and repaired the accelerator and instrumentation. Wrote the Operating Procedures and Equipment Familiarization Manual.

Nuclear Submarine Reactor Operator   1982 - 1988
United States Navy

- 3 years of training in electronics, nuclear power, and related fields in preparation for an additional 3 years of duty on board a nuclear powered fast attack submarine. Training includes Electronics Technician School, Naval Nuclear Power School, and Knolls Atomic Power Laboratory.
- Received Submariner's qualification Dolphins, Navy Expeditionary Medal, Battle Efficiency Ribbon, Sea Service Ribbon with bronze star, Good Conduct Medal, Honorable Discharge
- Technical proficiency and organizational abilities in Instrumentation and Control Systems and thorough knowledge of equipment, procedures, evaluation, upgrading, testing, troubleshooting, repairing, and maintenance requirements of electronic and electrical systems and their components.
- Qualified Reactor Operator, Reactor Technician, Electrical Operator, Auxiliary Electrician, Engineering Watch Supervisor
- Instructor on board in electronics, nuclear technology, plant design, operation, emergency procedures, and radiological monitoring and protection.
- Trained, examined, and guided performance of power plant operators
- Internal Monitoring Coordinator - Ensured maintenance was periodically monitored to ensure compliance with standard procedures. Credited with significant upgrading of monitoring system.
- Material Maintenance Management Coordinator - responsible for changes to maintenance system, scheduling, and documentation.
- Electrical Safety Inspector

Honors / Awards / Community

- Eagle Scout, Boy Scouts of America
- Assistant Scoutmaster since 1989, Murfreesboro, TN
- Phi Kappa Phi National Honor Society, Gamma Beta Phi National Honor Society, Sigma Club Honor Fraternity