

Summary

A multi-talented Software Engineer working in development and trouble-shooting embedded systems with over eight years experience as well as certified problem solving skills. Create new/update code in C/C++ for firmware, test applications and console interfaces. Excellent references regarding team participation. Will be able to obtain DOD clearance.

- C, C++ interface with real world devices in resource-constrained environments
- Low-level, hands-on design and develop embedded device experience with USB, UART, SPI
- Work history includes Electronic Engineering and Technician in lab environments
- Read schematics, embedded circuit design, and troubleshoot
- Have been named a Technical Support "Lifeline". Assistance for Operations, Sales, Customer Service as well as OEM queries with updates and solutions. Support high priority customers

Experience

3/2006 - 1/2009

[Telequip Corporation - A Crane Co.](#)

Salem, NH

Manufacturers of Coin Dispensers that can either reside inside Self-Checkout kiosks or on top of retail countertops. Hired originally as a Software Engineer, but a hands-on, action-oriented and personable nature resulted in initiating (and launching) various technical and administrative projects - a broad variety of contributions that benefited an on-site production facility. Job accomplishments in bold below demonstrate an instinctive ability to simultaneously work multiple projects in a variety of roles - proven multitasking skills.

Software Engineer

- Significant enhancements to existing legacy code base to optimize performance and with multiple software versions using C/C++ in embedded code as well as Configuration and Test SDK GUIs
- USB low level enumeration. Incorporated a USB to SPI chip to enumerate and communicate with a coin dispenser over a second USB port
- Created a GUI interface for retail peripheral devices and calculated change due
- Originated and completed a customized Windows ZIP program for production department RoHS documents
- Debugged, updated, and communicated with over a dozen serial protocols for the retail industry
- Started formal software bug tracking ([AxoSoft](#)). Entered and ranked the severity of all existing software bugs by product
- Managed and released all firmware to the production line. Summarized existing firmware and then created a new "Firmware Release" part number to easily view all firmware versions by product. Cross-referenced by customer (used extensively by production and sales)

Problem Solving Tool Champion (Lean Manufacturing/Toyota Production System)

- [Crane Co.](#) bought Telequip in June 2007 and promoted Operational Excellence. Selected by management and finished the self-directed program which required networking to attend five different week-long events at various locations across the US and in Canada
- Experienced in team presentation skills: Strong preparation and written/oral presentation skills to facilitate and lead Problem Solving events, which always include a diversified level of staff
- Trained to analytically find root causes of software, hardware, system and production failures and then immediately implement counter-measures

ECO (Engineering Change Order) Lead

- A highly motivated "self-starter": Singlehandedly took responsibility in April 2007 to become the ECO Lead to collaborate with seven departments including management
- Supervised the completion of 59 ECOs in 2008. Initiated and wrote 25 of those ECOs
- Facilitated and streamlined ECO meetings from 2 hours down to ½ hour

Experience (Continued)

Accomplished and Deployed Projects (Telequip Experience Cont'd.)

These self-directed projects demonstrate a flexible and adaptable style that met the changing needs of a department:

- Created from scratch and then deployed an ECR (Engineering Change Request) procedure
- Developed an ESD (Electrostatic Discharge) presentation - formally trained Production and Engineering staff and tracked their progress and conducted refresher training
- Production tact time improvement: Initiated and directed software technicians in a custom software download development to speed up embedded code load time on the production floor

4/2005 – Present

[E.E. WebDesigns](#)

Salem, NH

Web Designer

- Sole proprietor. Launched www.windhamcoop.com and www.andrewplayer.com
- Dreamweaver (HTML view)
- Perl scripts used/modified

12/2003 – 12/2006

Salem High School

Salem, NH

Adult Education Instructor

- Taught and wrote Computer Basics adult course curriculum for those adults who had never touched a mouse!
- Researched and developed material to author [Computers Made Easy](#), a 93-page instruction book

12/1996 – 6/2000

Eastman Kodak

San Diego, CA

The MegaPlus ES 1.0 is 8 or 10 bit digital resolution CCD camera with up to 1024 gray levels per pixel. The ES 4.0 12-bit camera reads out 15 frames per second with spatial resolution of over four million pixels (2048 X 2048). Suited for critical event monitoring, resolution-critical, and machine vision applications. Both cameras receive a pixel-by-pixel calibration.

Software Engineer

- Added functionality existing production code base (C/C++) for megapixel camera
- Assisted with ISO-9001 implementation within the Software Department
- Technical assistance to customers

12/1993 – 12/1996

Tracor Applied Sciences/BAE

San Diego, CA

TAPS (the Tracor Acoustic Profiling System) is a self-contained, compact oceanographic instrument that uses acoustical backscattering to measure the presence of zooplankton in relation to depth, temperature, and date/time.

Engineer

- Product development and support: design, prototype, test and technical writer
- Technical assist and field tests on oceanic surveys with marine biologists
- Engineered, deployed and repaired environmental microcontrolled data loggers (a weather station)
- PCB layout in CAD as well as schematic design work
- Developed and presented joint white paper: "Applications of Multi-Frequency Acoustics: Spatial Patterns in a Freshwater Lake", to the San Diego Chapter meeting of the Acoustical Society of America

Education

Southern New Hampshire University - Global MBA (in progress)

San Diego State University - BSEE

Grossmont College - General Education AA with honors