Ron Shanken

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#### San Bernardino, California

Ron@RonShanken.com

www.RonShanken.com

**Expertise in design/engineering/support in:**

1. Field Application Engineer (**Intel** and **NEC Microcomputers**)
2. Robotics and motion control (**Data I/O, Quality Automation**  
   and **RPS Systems**)
3. High Technology Test (**Corelis** and **RPS Systems**)
4. Low and High power Analog (**Data I/O, Quality Automation, RPS Systems**)
5. Experienced with Reps and Distributors World Wide **(Data I/O, Quality Automation and RPS Systems)**
6. Developed Windows applications and Web Apps using Microsoft Visual Studio 2010 Ultimate (**Empower Technologies, Pixon Imaging, Life Community Development**)
7. Award winning team leader, software/firmware and hardware designer

Experience:

**11/1998 / Present RPS Systems – Engineering Contracting San Bernardino, CA**

Senior Software/hardware Engineer

1. Software and firmware design for a GUI using C# and .net 4.0 used for field testing of drilling sites exclusively for Scientific Drilling Inc.
2. Developed website and web application using .net 4.0 technology for a non-profit homeless shelter/transitional housing company LifeCommunityDevelopment.org
3. Developed Windows Graphical User Interface using the API for 3 new products developed by Pixon Imaging. The GUI has advanced localization features including the ability to quickly switch to 1 of 10 languages. Visual Studio 2010 Ultimate and Visual Basic was used for development.
4. Final testing (alpha and beta) of hardware and software military and commercial products, homeland security, surveillance, and scientific applications including the products described above.
5. Pre-production test for “State of the Art” Boundary Scan/JTAG PC Board Test
6. New business development for North American accounts by assisting the sales team in identifying new markets
7. Design and support for electronics and software using Visual Basic for a new infant respirator exclusively for Children’s Hospital of Orange County.
8. Developed air traffic control software using C for the FAA.
9. Developed software for the Trident Missile System.
10. Development and support for Email and web hosting servers using Microsoft’s Server 2003 and Exchange 2003

**1992–1998 Data I/O Corporation Redmond, WA**

Senior Project Leader

1. Completed a four-year contract resulting from acquisition of Quality Automation
2. Project leader for the Promaster 2500 Automated I.C programmer which won SMT magazine’s best new product award for 1994.
3. Designed and managed electronics and firmware development for 3 new robotic I.C. handler projects
4. Designed five complex multiprocessor system boards using Intel 80188 and 8051 microprocessors.
5. Designed inter-processor communication protocol, proprietary real-time multitasking operating system, analog I/O hardware and software, stepper motor and solenoid hardware and the low-level software drivers for all robotic I.C. handlers.
6. Designed proprietary hardware and software to drive all motion control, impact dot matrix printer, thermal transfer printer and laser marking systems.
7. Designed communication hardware, interface protocol and software that interfaced with PCs and mainframe computer systems
8. Conceived of and designed high-level software and “look and feel” for the human interface using proprietary full ASCII keyboard and LCD display

**1984–1992 Quality Automation, Inc. Anaheim, CA**

V.P. of Engineering

1. Design complex multiprocessor systems for robotic machines, which included everything described above in the Data I/O section for four new machines
2. Company grew from 0 to $20,000,000.00 in annual sales in 8 years. (30% gross profit).
3. Conceived of and designed electronics and embedded firmware for a combination Laser marking and programming machine.
4. Project leader for robotic handlers of which approximately 600 machines are in use worldwide.
5. Company was acquired by Data I/O in 1992.

**1980–1984 Intel Corporation Santa Ana, CA**

Senior Field Applications Engineer

1. Provided high-level technical sales support
2. Assisted customers with pre- and post-sale support for embedded processor design for the latest microprocessors available
3. Prepared technical presentations for use in delivering product seminars
4. SDK experience selling Intel’s most profitable product, the development systems including assemblers, compilers, In Circuit Emulators (ICE) and development computer (Blue Box), giving large audience seminars, one on one demonstrations and assisting the customer with their designs.