

J C Boudreau

TECHNICAL SUMMARY:

CONCEPT, DESIGN, DEVELOPMENT & TEST of COMPUTERS,
INDUSTRIAL CONTROLS, and AUTOMATION.

* Hardware and Software*

- Systems design with Computers and Programmable Logic Controllers.
- Programming in Visual C++, Microprocessor assembly, Allen-Bradley, Siemens, & Mitsubishi PLC. Oriental, Adept, Superior, IMS Drives.
- Circuit Design using analog, digital, embedded, and electromechanical components.
- Mechanical design of circuit boards, brackets, and panels with AutoCAD.
- Pneumatics design with standard components and symbols
- Work efficiently with or without supervision, excellent analytical and problems solving abilities. Strong work ethic. Able to engineer one-of-a-kind and high-volume designs.
- Strong hardware and software computer knowledge including: Windows, Word, Excel, PowerPoint, MS Office, and Networking

EXPERIENCE:

Present:

Smiths Medical Keene, NH. Work on assembly, testing, and packaging equipment. Allen-Bradley PLC programming with RS Logix 500 and 5000, HMI programming with Panel builder 32 and RS View. Siemens PLC programming with S7, HMI programming with ProTool and WinCC. PC programming with Visual C++ and VB.

Responsibilities include:

- Provide instrumentation, hardware, PLC, and statistical technical expertise and troubleshooting in support of Smiths manufacturing operations.
- Define control system requirements based upon analysis and evaluation
- Write validation documents and ensure the equipment conforms to specifications
- Provide control engineering support on operational and control system validations
- Connect equipment to my work station for data collection and control circuit monitoring
- Design and Implement systems improvement projects
- Provide training to line technicians
- Manage projects; prepare documentation (Instructions, procedures, protocols, test plans) Maintain records of design and development activities and changes to document history as required by ISO and FDA procedures.

1991 To 2004:

Colony Hill Electronic Systems Inc. Design/build manufacturing and testing equipment as well as control system upgrades and documentation packages on customer equipment. Design, develop, and build equipment. Develop solutions to production problems relating to manufacturability and quality. Install, debug and provide training for electrical control systems and maintenance of installed equipment. Write and debug new control programs, and machine manuals. Prepare electrical prints and programming documentation. Perform wiring of electrical controls and equipment. Provide controls support to customers' technical staff. Manage complex projects, to meet financial goals. Manage a staff of 5 temporary & part time employees. Electrical, mechanical and software design. Find business, quote projects, and build systems to specifications. Design to comply with OSHA, NFPA, NEC, UL CSA, ADA, and customer standards

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1987 to 1991:

Honeywell, New Britain, CT: SR R&D Engineer. Develop and bring to market High Volume FLUXTRON Solenoid Coil for valve applications. Design and build PC based test systems for in-house production use. Analog Circuit Design of a variable voltage input electronic coil with low power consumption. Build prototypes and test circuitry to withstand extreme temperature range, EMI/RFI, and functionality. Develop solutions to manufacturing and quality issues. Design testing equipment using computer-based systems. Prepare electrical prints and bills of material. Manage and debug transformation from prototype to wafer fabrication, and creation of an application specific integrated circuit.

September 1979:

Markem Corporation, Keene, NH: Electronics Engineer/Project Engineer. Concept, design, prototype, develop, document, and support microprocessor based printing systems and accessories. Design, develop, and build printing and labeling equipment. Develop solutions to production problems relating to manufacturability and quality. Install, debug and provide training for electrical control systems and maintenance of installed equipment. Write and debug microprocessor programs. Prepare electrical drawings on drafting board and CAD system. Projects include: label applicators, cut/stackers, web re-winders and parts handlers for dot matrix, wet ink, hot-stamp, impact, electrostatic, laser, and thermal printers. Interface with sales, marketing, mechanical engineering, manufacturing, purchasing, vendors, field service, and customers. Responsible for standard product line, special application equipment, and in-house development systems. Programming with C, and assembly language. Printed circuit board design includes digital and analog components. Systems include AC/DC gear motors and steppers, relays, photoelectric, pneumatics, heaters, solenoids, and sensors. Traveled to customer locations for training and installation.

June 1977:

Data General Corporation, Portsmouth, NH: assembly & test facility. Co-Op assignments included Test Engineer, and Test Technician. Operate and maintain mini computer and peripheral testing equipment. Develop solutions to problems relating to manufacturability safety and quality. Troubleshoot and repair circuit boards.

EDUCATION:

September 1979:

Wentworth Institute of Technology, Boston, MA: <BSEET> Bachelor of Science Degree in Engineering Technology (Electronic Engineering Technology Co-Op Program) Graduated Deans List.

COMMUNITY:

Currently serving third term as Selectman (Chairman). Manage the prudential affairs of the town of Richmond, New Hampshire. Chairman of a three-member board of Selectmen. Use "people skills" to solve municipal problems and financial skills to manage a budget of \$950,000.00. Update documentation, create policies and procedures and conduct public hearings. Manage the entire municipal staff.

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