

Alan S. Rohulich

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Objective:

Expertise with Embedded Controllers, Pocket PCs, Apple's iTouch, Windows Desktop (VB.Net), and Web Based Apps (ASP.Net). Current projects include integrated circuit modeling using PSpice and SIMetrix/Simplis.

Executive Summary:

- **Currently using PSpice to model integrated circuits for various Clients in order to reduce their design passes in the development process. These models are complex in function, but eloquent in their design which provides a robust model with minimal susceptibility to convergence problems when combined with other models.**
- **Developed a barcode based quality inspection system. The system consists of multiple Pocket PC based barcode scanners (Motorola MC50, MC55 series) and a SQL based ASP.Net web site which when synced from the handheld, automatically updates both configuration data and inspection records including barcode assignment along with inspection data uploads. The unique point of the system is that it is a learning system. Competitor's products require preset definition of each barcode prior to system rollout. The system developed can be used on day 1 and requires no presetting of barcodes as the client can assign as few or as many barcodes at any time. ROI is maximized and TCO is minimized.**
- **Developed a Web Based Quality tool used by over one hundred different Clients located across the United States and Europe.**
- **Developed a custom Quality Analysis application that automatically generates Quality Reports (Pareto, Trend, Control, etc) by querying an Access Database and based on specific queries it identifies the Top deficiency attributes being measured during Quality Inspections related to the Cleaning Industry.**
- **Completed development of a custom Quality Inspection application that runs on a Pocket PC (Windows CE based Device). This tool captures deficiency attributes by Location, Area Type, and Item. The data is then transferred to a Desktop Tool that analyzes the inspection data and generates a Report, which can be used to Measure, Identify and Improve Quality with respect to the attributes used to define cleanliness of a facility.**
- **Sole responsibility of IT for a Power Development Lab located in Johnson City, NY, which included two remote sites, one in Boulder, CO, the other in Mahwah, NJ. In addition I also provided technical guidance to my counterparts located in our Parent Company in Toronto, CA and Portland, OR.**
- **Completed a project which replaced an IBM Mainframe based Card Layout Tool (CCDS) with a Client/Server based application Cadence (Concept/AWB).**

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- **Lead Engineer responsible for a Multi-level, Microcontroller Based Power Supply used in a super computer. This included Hardware/Software design of the microcontroller along with the designing of Push-Pull and Flyback switching converters in the units.**
- **Integrated Intel 8051 Micro-controllers into various power systems / supplies in support of several different development projects internal to Mid-Range processors in IBM.**
- **Designed microcontroller based control cards for power systems in the IBM 9370 and IBM 4381 Main Frames. These cards provided Power Supply sequencing and Diagnostics for the entire Power Systems in both IBM Main Frames.**
- **Developed RAS (Reliability Availability and Serviceability) Microcode for Microprocessor and Memory Testing. These Microprocessors were Custom IBM developed engines (UC.5 and Woodstock). These internal engines were later replaced with Vendor Microprocessors such as Motorola's MC6800 and Intel's series of Microcontrollers.**
- **Proficient in languages and application software such as Assembler, APL, Fortran, Basic, Visual Basic, VBA, Studio.NET 2003, 2005, 2008 (Vb.Net, etc), C/C++, Objective C, C-shell scripting, Perl, JavaScript, XML, HTML, Adobe Photoshop, Lotus Notes Admin/User, MS Exchange Admin/User, AWB/Simplis, SIMetrix/Simplis, PSpice, MS Office Suite (Word, Excel, Access, Power Point), Front Page, Internet Explorer, Safari, Google Chrome, MS Server 2003, NT Server/WS, MS SQL 2005, and CATIA installation / admin, Windows (95/98/ME/NT/2000/XP/CE/VISTA), AIX/AFS/, OS2, SunOS, and Unix.**

Education:

- Broome Community College, Binghamton, NY
A.S. Engineering Science, May 1975
- School of General Studies at SUNY, Binghamton, NY
B.T. Electrical Engineering, May 1977
- Syracuse University, Syracuse, NY
M.S. Computer Engineering, May 1983

Patents/Publications:

- **1 Patent filed**
- **4 IBM Disclosures**