

RODY R. SCLTZ

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Summary:

Highly experienced Controls / Systems Engineer and Manager, skilled in all aspects of controls hardware and software engineering, build and installation. Proficient in a variety of programming languages and databases. Expert PLC programmer. Extremely creative, practical, innovative and goal driven.

Areas of Experience:

Automation Design and Applications Development, CNC Systems, Controls System Design, Database Design, Electrical Engineering, Engineering Management, Factory Information & Plant Floor Systems, Operations Management, Project Management, SCADA Systems, Quality Systems

Professional Experience

CONTROL SYSTEMS ENGINEER, R & D, Ingersoll CM Systems, (Contract)

01/09 – 06/09

Responsible for development of 'Adaptive Control' crankshaft rolling / straightening software and hardware. Development hardware and software used: Excel, VBA, Visual Basic 6, OPC, SQL Server 2005, Siemens PLC and Siemens CNC.

- Performed extensive data modeling of crankshaft roll cycles to determine whether software could be designed to predict the outcome of roll hardening of crankshaft fillets. The goal of this activity is to eliminate subsequent crankshaft straightening cycles, significantly reducing machine cycle times.
- Developed an algorithm to predict the outcome of roll hardening cycles and to add corrective forces to straighten the crankshaft during the roll hardening cycle. Implemented this algorithm using Visual Basic, OPC and SQL server. Designed PLC data and interface models for PC to PLC communication of data.

LEAD CONTROLS & SYSTEMS ENGINEER, General Motors Corporation, CCRW (Contract) 10/02 – 10/08

Performed systems analysis, hardware and software engineering, cost estimation, system upgrade justification and future cost forecasting for General Motors Plant Floor Systems assembly, body, paint and stamping plants.

- Designed cost estimation software to allow easy development of multi-tier estimates for highly complex plant floor systems. Performed large scale system cost estimations for project appropriations.
- Developed bid specifications, installation drawings and other documentation for plant floor systems and conveyor systems.
- Upgraded and modified conveyor control PLC software for improved operation and efficiency.
- Engineered and deployed multi-million dollar system cost reduction solutions, including a new modular cable tray system featuring a low impact multi component mounting method.
Served as Lead Engineer for a \$15M, seven plant floor systems upgrade project. I developed the GM 2.0 Andon system (SCADA system, using Logix 5000, Excel VBA and VB.NET) during this project. Provided support of the Andon system until the 2007 redesign.
- Architect and developer of the new 'Scalable' Andon plant floor annunciation and control system (Logix 5000, VBA). The Andon system development scope included new hardware (new physical product), firmware and software solutions. This design eliminates servers and related support, and cuts hardware costs by approximately 80%, due to new, low cost modular components. Supported deployment of this system at GM assembly centers (Body, Paint and General Assembly).
- Three hardware and software patent submissions related to the above mentioned accomplishments.
- Software used in this position included AB 6200 (PLC2) RSLogix5 (PLC5), RSLogix5000, RSLinx, Panelbuilder, VB.NET, VBA, DDE, Microsoft Access, SQL Server, and all MS Office Professional products including MS Project Manager.

GENERAL MANAGER, Rapid Design Service, Grand Blanc, MI

06/98 – 03/02

Responsible for operations management, including overall P&L responsibility, business planning, budgeting, forecasting, financial analysis and performance to budget. This responsibility included both Flint, MI and Canadian operations.

- Managed a staff of up to 300 employees, including controls, tooling and product engineering/design groups, sales, staffing services, human resource and administrative functions.
- Increased net income 61% over previous year through elimination of unprofitable business and refocus of resources on new opportunities.

Managed controls, plant, product and tooling engineering groups, with annual engineering project revenues of over \$9 million. Position functions included financial, technical, project, personnel, and operations management.

- Directed a staff of up to 120. This included group managers, project managers, project leaders, engineers, designers, detailers, technicians, support personnel and administrative personnel. Implemented procedures and policies, adjusted personnel and developed software systems to improve quality and efficiency, thereby increasing Engineering Services gross profit margin from 20% to 32% and restoring this service group to profitability after significant previous annual losses.
- Served as Corporate Quality System Coordinator, leading the RDS ISO 9001 certification effort. Coordinated all registrar activity, and developed quality system documents. Designed and implemented a corporate Intranet based quality document control system. Achieved ISO 9001 certification two months ahead of schedule.
- Maintained strong customer relationships through hands on engineering, sales contact, technical management and project management.
- Served as Project Manager and/or lead designer for controls and tooling design projects.

CONTROLS ENGINEERING MANAGER, Rapid Design Service, Dayton, OH

05/89 -06/95

Managed controls and plant engineering services, which included customer interface, generation and/or approval of concepts, proposal development, quoting of design and build costs, project management, personnel management, technical direction, training, hands on design and programming.

- Through quality improvement and sales initiatives, successfully built a Controls and Plant Engineering group, resulting in growth to 22 personnel while increasing service group annual revenue from \$0.5 million to \$2.2 million.
- Doubled gross profit margins and consistently maintained higher profit margins than all other Engineering Services groups in the company.
- Performed Project Manager and lead engineer functions for automation, process, robotic and test systems. Designed control systems, including layout, power, system architecture, component specification, pneumatic design, CAD documentation, PLC and computer programming, testing and field start-up.

Previous Positions Include:

Lucas Verity Corporation, Electronics Engineer: Designed and implemented re-control and modification projects including a 16 axis, 8 spindle vertical lathe to Servo/CNC control from mechanical cam and relay control. Responsible for all plant CNC programming.

Rockwell International Corporation, Electronic Systems Technician: Responsible for installation, troubleshooting, repair and modification of control systems including CNCs, PLCs, drives and process controls.

Education:

Graduated with honors, Computer Engineering Technology, Milwaukee School of Engineering, GPA 3.6

Certificates and Licenses:

GM CCS-2, CCH-1, Macomb College, MI

GM ERWD, EPLAN21, Macomb College, MI

GM MEDSS, Macomb College, MI

GM Servo-VFD, Macomb College, MI

Other Skills and Abilities:

General:

CNC Programming, Computer Aided Design, Electronics Design, Industrial Network Design, Machine Tool Operation, Printed Circuit Board Design, Robotics, Machine Builder, Machinist, Statistical Process Control

Computer Applications and Development Skills:

Assembly Language, AutoCAD, AutoLisp, C, C++, Fortran, HTML, JavaScript, Microsoft Access, Microsoft Excel, Microsoft Front Page, Microsoft PowerPoint, Microsoft Project, Microsoft Word, MySQL, PASCAL, PERL, PHP, RSLogix 5000, RSLinx, SQL Server, VBScript, Visual Basic, VBA, VB.NET

PLC System Development and Programming:

Allen Bradley PLC2, SLC500, PLC5, Logix 5000, Omron, FloPro, GE, Giddings and Lewis, Mitsubishi, Siemens S7