



Professional Profile

Todd R. Stauffer, P.E.
Director of Alarm Management Services, exida

Fields of Competence

Alarm Management
HMI Design
Control System Security
Requirements Specification
Control System Migration
System Engineering
Control System Application Testing
Engineering Training

Experience Summary

Todd Stauffer is responsible for exida's alarm management products, services, and training portfolio. He has over 15 years of process control experience with applications in the chemical, pulp & paper, food & beverage, and life sciences industries. He is an editor and voting member of the ISA-18.2 standards committee on alarm management.

Prior to joining exida, he worked for Siemens Energy & Automation and Moore Products in various product management, marketing, consulting, and project engineering roles. He was the company's subject matter expert on alarm management, HMI design, and control system security – publishing several papers and articles on these topics.

Credentials

B.S., Mechanical Engineering, Penn State University, 1988

M.S., Mechanical Engineering, University of Pennsylvania, 1992

Systems Engineering Development Program (Lockheed Martin), 7/94 – 2/96

M.S., Electrical Engineering, Temple University (15 Credits)

P. E., Commonwealth of Pennsylvania, 1993

Key Assignments

Certified Alarm Management Trainer for ISA Course IC39C "Introduction to the Management of Alarm Systems".

Worked with a major control system supplier to assess and document how to comply with (follow) the ISA-18.2 standard using their system.

Editor / Voting Member of ISA-18.2 committee. Key contributor and clause editor for ANSI/ISA-18.2-2009 "Management of Alarm Systems for the Process Industries".

Alarm Management Subject Matter Expert (SME) for major control system supplier. Responsible for conducting customer seminars, presentations, and training of internal / external audiences.

Product Manager for exida SILAlarm tool for Alarm Rationalization. Responsible for creating functional requirements, providing technical direction to R&D, and lifecycle management of current and future versions.

Led control system security assessment at Idaho National Labs as part of the Control System Security Program (CSSP) sponsored by the US Dept of Homeland Security.

Led Process Automation System Marketing team (DCS & Migration products and Services portfolio). Responsibilities included development of sales & marketing collateral, execution of tactical marketing campaigns, setting strategic marketing direction, planning / leading / executing customer user conferences and development / execution of one-day customer training seminars.

Product Line Manager responsible for planning, development, and marketing of HMI Software / alarm subsystem component of \$100M per year Process Automation Systems business. Responsible for requirements definition, roadmap planning,



Professional Profile

Key Assignments – Continued

technical direction, product launch, and ongoing product maintenance and enhancements.

Responsible for the design, configuration and startup of new process automation (control) systems used in the chemical, biotechnology and pulp and paper industry.

Lead Engineer for DCS Migration of leading pulp and paper company. Provided technical direction / supervision to 10 member project team composed mostly of junior engineers. Defined checkout procedures for certification / customer acceptance of software application logic for the control system (reduced checkout period from 6 months to 6 weeks). Provided on-site instrument calibration/checkout and system startup assistance.

Lead HMI Engineer for configuration of new Biotech Drug facility (6000 I/O). Responsible for development and configuration of HMI software application and alarm subsystem. The effort included creation of software functional specifications and software validation (FDA) test protocols.

Employment Summary

2009 – Present:
exida

2000 – 2009:
Siemens Energy & Automation

1996 – 2000 :
Moore Products

1988 – 1996:
GE Aerospace / Martin Marietta / Lockheed Martin

Affiliations

International Society for Automation (ISA)

Awards and Honors

Keith Otto Award for the Best INTECH article of 2007

Selected Magazine Articles

“Alarm Management is a Journey: The New ISA 18 Alarm Management Standard and What It Means to You”, N. Sands and T. Stauffer, to be published Feb, 2010

“Alarm Management: Setting a new Standard for Performance, Safety, and Reliability with ISA-18.2”, Canadian Process Equipment & Control News, Dec 2009

“Operators on alert: Operator response, alarm standards, protection layers keys to safe plants”, D. Hatch and T. Stauffer, INTECH, Sept 2009

“PLCs and DCSs Converge”, B. Nelson and T. Stauffer, CONTROL ENGINEERING, May 2008

“Don’t be Alarmed: Avoid Unplanned downtime from alarm overload, use top techniques to improve alarm management”, G. Goble and T. Stauffer, INTECH, Jan 2007

“What’s Your Legacy: Maximize existing asset value and migrate in a stepwise, incremental fashion”, R. Consoli, K. Keiser and T. Stauffer, INTECH, June 2006

“Migration Path: Systems often age, but some assets have a longer life span”, K. Keiser and T. Stauffer, INTECH, Dec 2005

Selected Technical Papers

“Making the most of Alarms as a Safety Layer of Protection”, T. Stauffer, to be presented May 2010 at the Safety Systems Conference, Calgary, AB

“Get a life(cycle)! Connecting Alarm Management and Safety Instrumented Systems”, D. Dunn, N. Sands, and T. Stauffer to be presented April 2010.

“Alarm Management and ISA-18: A Journey, Not a Destination”, D. Dunn, N. Sands, and T. Stauffer, to be presented Jan 2010

“Saved by the Bell: Using Alarm Management to Make Your Plant Safer”, D. Hatch and T. Stauffer Dec 2009.

“Safety & Security: Can You Have the Best of Both Worlds”, T. Stauffer and C. Fialkowski, Jan 2009

“Preventing Unplanned Downtime through Alarm Management: The Five Most Important Techniques for Preventing Unplanned Downtime”, August 2006.