



Professional Profile

Jonathan F. Keswick

Fields of Competence

Safety Instrumented System Design
Failure Modes Effects and Diagnostics Analysis
Electrical and Electronics Engineering
E/E/PES Design Standards
Requirements Engineering
Human Factors Engineering
Safety Critical Systems Project Management
Hazard and Risk Management & Safety Cases

Experience Summary

Jon Keswick has more than 15 years of professional experience working in various control, automation and instrumentation vendor companies. His expertise includes in-depth knowledge of safety standards, with specific focus on safety instrumented systems and related equipment employed in the process sector. This includes applications in Oil and Gas, Chemicals, Pharmaceuticals and Power generation industries. Jon was instrumental in the successful uptake of programmable electronic systems employed in safety related applications during the mid to late 90's across Europe and the Middle East, and worked in a senior lead technical role for a safety system vendor during much of this period. He comes directly from a role which involved international responsibility for the setup and development of a process safety business stream within a major international system vendor, and brings in-depth knowledge about the market, products and systems employed in safety related applications.

Credentials

National Diploma in Electrical and Electronic Engineering, 1985
Higher National Certificate in Engineering, Leicester University, 1988
Certificate in Safety Critical Systems Engineering, York University, 2001

Key Projects (continued)

Key Projects

Directed global sales and marketing effort for Siemens Automation and Drives global process safety initiative. He was responsible for market planning, development, and support of the QUADLOG and Simatic S7400FH ranges of safety related PLC's focused into safety and high availability applications in the process industries. The project included creating market communications, defining staffing in key locations, allocating budgets, recommending process and product improvements, and coordination of sales, product management and product development.

Managed the critical systems solutions group of Moore Process Automation Solutions (formerly Moore Products) for Europe, Middle East and Africa. The role included lead technical consultancy on safety related projects, requirements authoring, and coordination of sales and system engineering groups.

Managed Industry sector development for the process industries for Group Schneider. Responsibilities included product management and business development of the April 5000S Programmable Controller for safety related applications, including approvals interaction with the French Institut National de L'Environnement et des Risques (INERIS)



Professional Profile

Co-author of QUADLOG safety and reliability calculation tool.

Co-author of a User Requirements Specification for a safety related control and flexible batch management system at a large UK pharmaceutical intermediates manufacturing plant.

Lead technical role for advice relating to implementation of a Safety Instrumented System for use on a hazardous batch reactor for a UK chemical intermediate production plant.

Consultation on use of safety equipment for wellhead shutdown systems for remote gas wellheads.

Consultation for hazardous batch reactor shutdown system, logic solver equipment selection and overall SIL verification of installed system.

Instructed at Aston University, UK as Adjunct Instructor on the subject of safety related systems for students studying for Diploma in Health & Safety.

Affiliations

International Society for Measurement and Control (ISA), Member

Selected Magazine Articles

Finding a route to IEC1508 approval, Control Systems, May 1997.

Improving Fired Heater Safety, Hydrocarbon Processing, February 1998 : Co-author John A. Cusimano

Cost Effective Safety Instrumented Systems, Hydrocarbon Asia – Sept/Oct 2003

Selected Technical Papers

Smart Sensors in Safety Critical Applications, SMRBT seminar, Het Instrument, Utrecht, Netherlands October 1998 – reprinted in Journal A – Volume 40 No.1, March 1999 Co-Author: Dr. William Goble.

Bridging the Gap – Reliable software derived from cause and effect requirements - ISA Rome, April 1999.

Using Smart Transmitters in Safety Applications – IFEA Conference, Oslo, Norway – February 2000.

A Practical Overview of IEC61508 and the process-related variant IEC61511 – ISA Saudi Arabian Section, Dhahran, Saudi Arabia – April 2000