



## Professional Profile

### **John E. Bogdan**

#### **Fields of Expertise:**

- Alarm Management
- Advanced Process Control
- Process Optimization
- Safety Instrumented System Design
- Six Sigma

#### **Experience Summary:**

John Bogdan has over 30 years of Design, Commissioning, Operating, and Consulting experience in the Chemical, Oil & Gas, and Power industries, from blue-chip operating companies (DuPont) to system suppliers (Invensys Process Systems).

He is a Subject Matter Expert in alarm management and has facilitated numerous process hazards and alarm rationalization and documentation reviews, has developed and presented workshops on alarm management principles, and has written and presented papers on the subject.

He is an active member of the International Society of Automation (ISA) S18 committee that developed the standard (18.02), "Management of Alarm Systems for the Process Industries," and several of its subcommittees.

His knowledge of and experience with the control of industrial processes make him uniquely qualified to facilitate alarm rationalization and documentation projects in an efficient and thorough manner.

#### **Credentials:**

- Bachelor & Master of Science in Chemical Engineering – Washington University, St. Louis, MO (1977)
- Certified Six Sigma Black Belt

#### **Key Projects:**

Developed Alarm Management processes, procedures, training, and tools for Invensys Process Systems

Designed and implemented a control scheme that reduced downtime caused by lack of feed by 54%, resulting in an annual \$5.3 million increase in income

Designed and implemented an automated reactor start up strategy that reduced start up time tenfold with an annual increase in income of \$1.5 million

18 years of ABB INFI 90 distributed control systems (DCS) experience with both controllers and operator consoles, including design, configuration, installation, start up, system loop tuning, and troubleshooting

DCS commissioning and start-up engineer for an 850 MW coal fired power plant

Lead control engineer on a 5½-year series of high-hazard, process expansion, and DCS retrofit projects; Responsible for safety system design, control strategy development, DCS & programmable logic controller (PLC) configuration, and start-up tuning & commissioning



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### Key Projects (continued)...

2005 DuPont Sustainable Growth Excellence Award – Designed and implemented a control strategy that increased capacity and significantly reduced emissions

Led and participated in process hazards reviews ranging in size from 100 to 900 man-hours

1994 DuPont Engineering Excellence Award – Member of a multidiscipline team to implement new control and start-up strategies of a continuous polymerization reactor that increased first pass quality yield from 80 to 92%, reduced start-up time by two thirds, and resulted in an annual \$3 million increase in income

Lead project engineer for the design, construction, and start-up of a new phosgene plant. Designed the process, control strategy, and interlocks to allow unattended operation including start-up, shutdown, and rate changes

### Employment Summary:

#### 2009 – Present:

Owner / Manager – J Bogdan Consulting LLC

#### 2007 – 2009:

Subject Matter Expert, Alarm Management – Invensys Process Systems

#### 2006 – 2007:

DCS Start-up Engineer – ABB Inc

#### 2006 – 1993:

Senior Process Control Engineer – DuPont

#### 1984 – 1993:

Project and Area Process Control Engineer – DuPont

#### 1977 – 1983:

Process, Project, and Process Control Engineer – DuPont

### Affiliations:

International Society of Automation (ISA), Member.

### Selected Technical Papers:

*Alarm Management, presented at the 2001 Instrumentation Symposium for the Process Industries, College Station, TX, January 24, 2001*