



## Professional Profile

### **Stéphane Boily, P.Eng, CFSE** **Senior Safety Engineer**

#### Fields of Competence

IEC Functional Safety – IEC 61511  
Safety Instrumented Systems Design  
PLC Control Systems  
Control Systems Electrical Design

#### Experience Summary

**Mr. Boily** is a professional engineer with over 20 years of experience in process control, safety instrumented systems design and functional safety. Mr. Boily also has experience in management.

Mr. Boily has worked in various industries such as on-shore and off-shore O&G, cement, aluminum smelters.

His technical expertise lies in specification development, Safety Requirements Specifications, SIL verification, SIL determination reporting, programming, testing, commissioning and startup, electrical design, industrial process model design, TMR systems and Safety Instrumented Systems in general. Mr. Boily received the Certified Functional Safety Expert (CFSE) certification in August 2004.

#### Feb 2009 - present, exida Canada Ltd.

- Layer of Protection Analysis (LOPA) reports for O&G projects
- Safety Requirements Specifications development
- SIL verification
- Proof Test Procedures development

#### Aug 1996 – Feb 2009, Emerson Process Management.

- Group Manager SIS/PLC engineering
- SIS Lead engineer
- Project Lead

#### 1987 – 1996, Previous employment.

- Famic Technologies
- Technologies BABN
- Procédés et Conseils Inc.

#### Credentials

- B.Sc., Electrical Engineering, École Polytechnique de Montréal, 1988
- Certified Functional Safety Expert (CFSE), 2004

#### Key Assignments and Projects

- Lead safety engineer for SIL verification for a series of gas facilities for BP Canada.
- Lead safety engineer for SRS and SIL verification for chemical pilot plant.
- Member of Emerson's safety systems global management team which set direction on safety instrumented system (SIS) engineering activities of Emerson
- Worked with an Emerson international team of engineers to develop the engineering processes and procedures required to meet the requirements of the IEC 61511 safety life cycle
- Reviewer for the development of Emerson Process Systems and Solutions' functional safety management system
- Successfully passed TUV audit for certification of Hydrocarbon and Energy Industry Center (HEIC) to use of IEC61511 processes
- Performed site audits of cabinet wiring facilities in order to approve for DeltaV SIS projects
- Performed project audits for compliance to Emerson's Safety Management system
- Performed electrical design and Triconex programming activities; developed factory acceptance test (FAT) and site acceptance test (SAT) procedures, design guidelines, and specifications

#### Teaching

- *exida's* Functional Safety Engineering I and II

#### Affiliations

- Member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)
- Member of the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC)
- Member of the Ordre des Ingénieurs du Québec (OIQ)

#### Languages

English and French