



## Professional Profile

### **T. Ray Landes** **Test Engineer**

#### **Fields of Competence**

- CRT Testing
- Failure Modes Effects & Diagnostic Analysis
- Hardware Fault Injection

#### **Experience Summary**

**Mr. Landes** has over 37 years of experience and extensive knowledge in the design, manufacture, application and support of industrial process control equipment. Specialties include I/O, Communications, Fail Safe, and Safety Agency Approvals (FM, CSA, UL and CE).

#### 1974 - 1980, Leeds and Northrup:

- Electronic Tester Troubleshooter Instructor.
- Senior Electronic Manufacturing Engineering Technician on Max 1 Distributed Control System.

#### 1980 - 2011, Moore Products Co. / Siemens Industry:

- Safety Agency Approvals Coordinator, performed testing, documentation for FM, CSA, UL and CE certifications.
- APACS and QUADLOG Development Engineering, performed some of 1<sup>st</sup> FMEDAs for QUADLOG.
- Senior Technical Support Engineer for APACS, QUADLOG and PCS7 IO and Communications.

#### 2011-present, Test Engineer with *exida*.

- CRT testing for ISASecure
- Test fixture design
- Development of system robustness testing specification

#### **Credentials**

- Electronics Technologies graduate – North Montco Technical School
- Certified Profibus Network Engineer

#### **Key Assignments and Projects**

- CRT Testing for ISASecure

#### **Security Related Training**

- CRT Test Training
- Security Case Preparation