

# ANDREW P CLARK, PE

## PRESIDENT

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Andy founded ATS in 1986 and is the senior design engineer at ATS / Third Millennium Engineering. His broad range of experience and education enable him to effectively manage technically demanding, multi-disciplinary projects. His hands-on engineering style and steadfast adherence to quality principles have been instrumental in developing ATS' hallmark qualities of innovation and responsiveness.

- Responsibilities:**
- Provide project management, estimating, bidding, scheduling, and expediting.
  - Direct engineering performed by ATS and Third Millennium Engineering.
  - Provide process, nuclear, structural, mechanical, and electrical engineering and design.
  - Provide prototype concept, design, fabrication, and validation.
  - Direct research and development.
  - Design, implement, and supervise product qualification tests.
  - Author test plans, procedures, specifications, manuals, and commercial dedication instructions.
  - Provide customer consulting and contract professional services as required.

### **Professional Experience:**

#### **Assurance Technical Services Inc.**

President: 1999 – present

General Manager: 1986 – present

- Designed and managed manufacturing of Class 1E (nuclear safety grade) sensors and associated hardware and software.
- Designed, documented, and implemented 10CFR50B (US NRC) quality assurance system.
- Designed, installed, validated, and supervised startup of ATS' harsh environment test laboratory.
- Provided analysis and specification of harsh environment qualification criteria.
- Managed qualification testing of harsh environment equipment and components.
- Managed dedication of Commercial Grade items for Nuclear Safety applications.
- Designed, installed, and validated laboratory automation systems.
- Maintained and improved real-time data acquisition software.
- Implemented an NQA1 compliant metrology laboratory.
- Managed identification, analysis, and correction of indirect radiation damage mechanism.
- Performed failure analysis of instrumentation systems.
- Designed, fabricated, installed, and supervised startup of Cobalt-60 irradiator.

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- Authored procedures, reports, manuals, and instructions.
- Designed, fabricated, and validated test system for HF contaminated safety and relief valves.
- Designed, fabricated, and validated automated test stations.
- Designed, fabricated, and validated nuclear reactor experimental fixtures and equipment.
- Designed, installed, validated, and supervised startup of research nuclear reactor cooling system.
- Designed, fabricated, validated, and supervised startup of novel automotive production tooling.
- Designed, prototyped, fabricated, validated, and operated portable test equipment.
- Designed, fabricated, and validated precision mixed signal instrumentation circuits.
- Designed, fabricated, and validated smart sensor circuits.
- Managed testing of nuclear propulsion components.
- Discovered defect then designed and implemented repairs/modifications to nuclear fuel element in a research reactor.
- Designed, fabricated, and validated custom electronic test and burn-in equipment.
- Designed press and tooling for classic automobile part manufacturing.
- Designed, fabricated, validated, and supervised startup of valve test systems.
- Managed performance testing of prototype steam turbine.
- Provided analysis, repair, and improvement of existing process and manufacturing systems.
- Prepared nuclear power plant instruction manuals and tests.
- Designed and fabricated prototype novel electroplating cell.
- Designed, fabricated, and supervised startup of wood fiber molding tooling.
- Performed analysis and laboratory validation of critical flow phenomena.
- Performed analysis and laboratory validation of multi-phase, multi-component transient heat transfer.
- Designed, fabricated, validated, and operated high temperature (~750 °C / ~1400 °F) experimental steam superheater.
- Designed and directed design validation testing of industrial equipment.
- Performed software verification and validation.

**Franklin Software Corp.**

Senior Software Engineer: 1986 – 1987

- Designed, coded, and validated real-time data acquisition software: Data Sentry™.

**The Ohio State University**

Research & Teaching Assistant: 1982 – 1986

- Designed and implemented upgrades of environmental test facilities.



ASSURANCE TECHNICAL SERVICES INC  
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- Provided analysis and specification of harsh environment qualification criteria.
- Performed qualification testing of harsh environment equipment and components.
- Managed staff and participated in novel heat pump research.
- Authored test procedures and reports.
- Instructed senior mechanical engineering laboratory classes.

**Professional  
Registration:**

Ohio Professional Engineer, E52725, 1989

**Education:**

**The Ohio State University**

- Graduate (MS coursework complete) in Nuclear Engineering (Thermal Science)
- Graduate (MS coursework complete) in Civil Engineering (Construction Project Management)

**University of Cincinnati**

- BS in Nuclear Engineering
- BS in Civil Engineering (Structural)