

# Harry Rice

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## PROFESSIONAL PROFILE

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Business Consultant with over 20 years' experience in auditing, management, training, operation, and maintenance spanning autonomous mobility; top automotive and electronics factories; government, commercial, and research nuclear and non-nuclear facilities; and small business enterprises. Expert in software quality assurance, software engineering, training management, information technology management, strategic planning, and change management. Lead auditor on programs and automated processes for a vast range of standards. Co-inventor of the patented Computerized Training Management System (CTMS) and Presenting Interactive Communities System (PICS). US Navy Nuclear Submarine Service Veteran, and recipient of the DOE TRADE Award for Excellence.

## CORE COMPETENCIES

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**Quality Management Systems:** Designs, develops, and implements innovative and comprehensive toolsets for Quality Control, Quality Engineering, & Quality Assurance

**Design and Development:** Leads cross-functional process improvement teams to assess gaps in quality across all processes, reporting findings, recommending, and implementing measures to gain or ensure compliance

**Continuous Improvement:** Leverages potential for incremental gains, delivering impacts on overall performance

**Technical Training:** Identifies and addresses capability gaps with targeted action, improving skills and accountability

**Software Engineering:** Proposes, designs, develops, implements, and audits systems, programs, and automated processes to IATF 16949, ISO 9001:2015, ASME NQA-1, and SEI-CMMI through to patent award and commercialization

**Software Quality Assurance:** Reviews computer system configuration, continual integration, configuration management, and software requirement specifications to IEEE and ISO/IEC standards (IEEE 1207, ISO 26262, ISO 21434, ISO 21448)

**Change Management:** Controls all aspects of change to examine impacts to business functions and processes

**Strategic Planning:** Works with stakeholders to formulate goals, delivering systems to meet and exceed expectations

**Sales & Marketing:** Applies a consultative sales approach to demonstrate benefits and overcome objections, converting leads in B2C and SaaS environments

**Presentation:** Capably presents systems to a variety of audiences in public presentations, online and in comprehensive documents, a strong technical writer, editor, and narrator with well-honed, engaging public speaking skills

**Compliance:** Lead Auditor for ISO 9001-2015, IATF:16949-2016, ASME NQA-1, 10 CFR 50 Appendix B, 10 CFR 830 Appendix A, DOE O414.1D, DOE O333P, ISO 26262 for highly regulated and safety related applications

**Methodologies:** SAT, Agile, Hybrid Waterfall, V Model - Automotive SPICE, SCRUM, SAFE, Lean Six Sigma, Kaizen

**IT:** Admin and Developer across platforms including MS O365 Suite including Project and Visio; Google G-Suite; Ignition SCADA; Articulate 360; MSSQL Server; RBASE; AODocs; iAuditor; EdApp

**Business Sectors:** Academic, Nuclear, Automotive, Construction, Power Generation, Process Automation, Environment, Process Safety, Facilities Management, Utilities, Robotics, Warehousing/Distribution, Manufacturing and Training

## CAREER SUMMARY

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### PRINCIPAL CONSULTANT:

PICS LLC [Georgetown, KY]

May 2022 - present

- Advising this small independent patent-awarded business on QMS, designing browser-based platform management systems, applying leading-edge technology daily
- Developing programs for automation, publication, manufacturing, process improvement, quality assurance, marketing and advertising, energy efficiency, engineering, computer technology, and software development
- Developing relational database management systems for research & development, production, and service-oriented facilities, specializing in bridging legacy programs to browser-based platforms
- Business plan development, market research and vertical market development in health and wellness products, nutraceuticals, technology, software, and manufacturing
- Enhancing the resiliency of small communities, supporting universities on homeland security issues, developing programs through dynamic, interactive community graphics, publications, and internet connectivity programs

## **QMS MANAGER:**

**Motional [Pittsburgh, PA]**

*Jul 2017 - May 2022*

- Heading quality management initially for NuTonomy, an MIT spin off inventing autonomous vehicles (Robotaxis), later becoming Motional, the Hyundai Motor Group/Aptiv joint venture for production of self-driving car fleets
- Developed and implemented Quality, Safety and Learning Management Systems (QMS/SMS/LMS), including Document Control and Records Management, Internal Audit Program, and Corrective/Preventive Action Program modeled on the Automotive SPICE Performance Assessment Model, all on the AODocs platform within a G-Suite managed infrastructure, with iAuditor tools for inspection and project management
- Designed and implemented five levels of role-based QA training with classroom and online elements, qualifying (19) internal auditors at the highest level using LITMOS Learning Management System, Articulate360 StoryLine, and EdApp
- Led an elite process improvement team of 100 process owners, SMEs and quality engineers to develop and implement a model process-based management system to ISO 9001/IATF 16949/ISO 26262/ISO 21434/448 standards
- Authored a four-tiered corporate-wide documentation framework for the QMS including policies, plans, procedures, work instructions, curricula, and job aids

## **SENIOR QMS ENGINEER:**

**Martinrea Heavy Stamping [Shelbyville, KY]**

*Mar 2017 - Apr 2019*

- Developed and implemented an updated QMS and led the team on quality management system certification recovery and gain IATF 16949 in 1 year, including ISO 9001:2015 and Ford Q1, compiled regulatory standards and operational data for use in data-driven decision making and risk-based management
- Established a cross-functional process improvement team at largest company facility, coordinated with 5 nationally
- Deployed QMS toolset across all functions and for management review as SharePoint Architect
- Provided polished presentations on findings as Lead Auditor to internal and external process owners
- Worked with other departments to achieve overall analytical objectives and audits using MS Project reports via visualization employing Lean and using Six-Sigma tools for algorithmic analysis
- Configured and maintained 150+ computer devices monitoring plant operations and quality controls applying Ignition SCADA programming to implement real-time KPI monitoring at the assembly lines
- Developed quality alert real-time notification, distribution, and management system across clients', manufacturers', and suppliers' quality programs

## **LEAD QUALITY ENGINEER - PERFORMANCE ASSESSMENT:**

**Westinghouse Electric Corp/WECTEC [Vogtle Station, Units 3/4, Waynesboro, GA]**

*Nov 2013 - Feb 2017*

- Supervised quality for Engineering, Procurement and Construction for new build AP1000 Nuclear Power Plants
- Lead Auditor for 10CFR50, Appendix B, and NQA-1
- Performed assessments, trend analyses, Inspections, Test, Analysis and Acceptance Criteria (ITAAC) development, engineering document reviews, surveillance of quality and performance improvement programs
- Part of the Management Review Committee, screened corrective action reports, non-conformance reports, and unsatisfactory inspection reports for trends, 10CFR Part 21 reportability, and quality threats
- Developed quality and technical procedures, trend/metric reports and reviewed causal analysis reports

## **QUALITY MANAGER - NUCLEAR:**

**Invensys Operations Management - Global Nuclear QA [Lake Forest, CA]**

*Sep 2011 - Apr 2013*

- Headed a QA team of 18, in the manufacture of distributed control systems (DCS), overseeing QC and regulatory compliance of marketing, R&D, engineering, manufacturing and integration projects
- Oversaw quality for manufacture and testing for applications of the TRICON Reactor Trip Systems in both new builds and retrofits in North America, China, South Korea, and Scandinavia. Approved Certificates of Conformance.
- Compliance & QA Review Board Chair, Lead Auditor Certification Authority & Root Cause Analysis approval authority
- Cross-Functional Process Improvement Team Lead, upgraded QMS using Oracle Agile enterprise management systems to ANSI/ASME nuclear consensus standards and DoE/NRC regulations
- Directly managed ISO 9001:2008 and NQA-1 Audits, Commercial-Grade Dedication, Receipt Inspection, Organizational Development, Surveillance and Management Assessments
- Applied DMAIC, Lean Six Sigma, Kaizen and Poke-yoke principles to improve quality using metrics and KPIs
- Secured Final Safety Evaluation and Nuclear Regulatory Commission (NRC) Topical Report, and successfully passed up to 11 regulatory surveillances, client audits, and NRC Inspections, with no major findings, each year

## QA MANAGER:

Energy Solutions LLC [Paducah, KY]

Sep 2009 - Apr 2011

- Oversaw quality for construction, testing and start-up of the UDS-DUF6 Conversion Facility Project, DOE PPPO, Paducah, KY and Portsmouth, OH, as prime contractor (2010 - 2012)
  - Oversaw development of software requirements and functional descriptions, software verification and validation (V&V) plans for plant controls using ABB® 800xA with RSLogix 5000 DCS
  - Managed suspect/counterfeit items, Commercial-Grade Dedication (CGD), receipt inspections, organizational development, surveillance, management assessments, and root cause analyses (RCA) reports
- Managed performance assurance for the Uranium-233 dispositioning project at DOE Oak Ridge, TN, the world's oldest operating nuclear facility, defining concept, designing, engineering, procuring, and fabricating new applications and constructing a new facility to encompass existing systems (2009 - 2010)

## EARLIER EXPERIENCE

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PRINCIPAL NUCLEAR OPERATIONS TRAINING SPECIALIST @ URS Waste Treatment Facility [Richland, WA]

BUSINESS DEVELOPMENT SPECIALIST/AGENT @ PICS, LLC & NFIB [Lexington, KY]

SOFTWARE QA MANAGEMENT SPECIALIST/LEAD AUDITOR @ PICS, LLC & NFIB [Lexington, KY]

VP BUSINESS DEVELOPMENT @ Hourly Computer Services Inc. [Huntington, WV]

START-UP MANAGER - SMART AUDIT PROGRAM @ Kentucky Power [Ashland, KY]

SR REACTOR SUPPORT SPECIALIST. @ Brookhaven National Lab, High Flux Beam Research Reactor [Upton, NY]

NUCLEAR/TECH TRAINING SUPERVISOR @ Long Island Lighting Co, Shoreham Nuclear Power Plant [Central Islip, NY]

NUCLEAR POWER PLANT SUPERVISOR/TRAINER @ US Navy Submarines, Advanced Engineering School [Groton, CT]

## EDUCATION

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Bachelor of Science (Equivalent), Science & Technology

Associate of Science (Equivalent), US Navy Nuclear Propulsion Program - Instructor

## CERTIFICATIONS

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ISO 9001:2015 and IATF 16949 Lead Auditor (2011 to present)

ANSI/ASME NQA-1 N45.2.23 Lead Auditor (2011 to present)

Certification of Training and Examination (2009)

Certified Instructor, Nationwide (2009)

## LANGUAGES

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Fluent English, basic Spanish & German