

## CURRICULUM VITAE

### CELSO ALVARADO JR

*Sustainability, Innovation and Management Systems Expert*



#### SUMMARY

A visionary leader, entrepreneur, innovator and problem-solver; lived in seven (7) countries; made business visits to over fifty (50) countries; experienced in Research & Development, Manufacturing, Engineering, Education, Government; relentless about continual improvement; determined to ensure that the entire organization is focused on getting the job done right the first time, within budget, safely and using the best available information technology. Currently seeking opportunities to continue conducting research as well as contributing to the effective, efficient, and sustainable operation of organizations where my technical background, business acumen and leadership skills can help add value while ensuring customer and stakeholder satisfaction.

#### WORK EXPERIENCE

- January 2021 – Present* **Adjunct Professor**  
NYU Tandon School of Engineering  
Responsibility: Support the Technology Management and Innovation Department by teaching a course on Innovation Management. (Part-Time)
- February 2020 – Present* **Founding Board Member**  
SMART PLANET ASSOCIATION, [www.smarplanetassociation.org](http://www.smarplanetassociation.org)  
Responsibility: Oversee a non-profit organization that is working to ensure a safe, healthy, resilient and intelligently inter-connected planet for the benefit of current and future generations. (Part-Time)
- January 2017 – Present* **Director / Chief Engineer**  
NEBUSIS CLOUD SERVICES, [www.nebusis.com](http://www.nebusis.com)  
Responsibility: Provide strategic direction to a start-up Information Technology venture that is developing secure Cloud, Blockchain, IoT and AI solutions to support Health, Security, Environmental, Quality and Information Security Management systems. (Part-Time)
- February 1993 – Present* **Director**  
QSI AUDITING AND CERTIFICATION SERVICES, LLC, [www.qsicertifications.com](http://www.qsicertifications.com)  
Responsibility: Strategic and operational leadership of a multinational company that delivers audit services and corporate training pertaining to ISO standards for Medical Device/Pharmaceutical Quality Management, Food Safety Management, Occupational Health and Safety, Environmental Management, Information Security Management and related information technologies. (Part-Time)
- September 1990 – May 1993* **Management Representative (ISO)**  
COMPANIE DE SAINT-GOBAIN (NORTON), Wayne, New Jersey, USA  
Responsible for defining, establishing, implementing and evaluating policies for conformance to ISO 9001 and QS 9000 international standards for management systems.
- July 1990 – June 1993* **Area Process Engineer**  
IMPERIAL CHEMICAL INDUSTRIES (ICI), Bayonne, New Jersey, USA  
Responsible for Implementation of polymer processing improvement Initiatives; Manage corrective action Program; Management / resolution of technical/ customer Issues; process safety and environmental management system support; Implementation of Statistical Process Control & Design of Experiments; Coordination of ISO 9002 implementation and certification.
- January 1988 – July 1990* **Chemical Engineer**  
AMERICAN CYANAMID, Clifton, New Jersey, USA  
Responsibility: Development of computer-based mathematical models in support of consumer product research; Analysis of the results of laboratory and pilot plant trials for ensuring effective up scaling to manufacturing; Implementation of Design of Experiments and Statistical Process Control techniques to validate and optimize processes. Development of SOPs / protocols for compliance with FDA GMP regulations.
- June 1987 – January 1988* **R&D Pilot Plant Engineer**  
PEPSI (Headquarters / Pilot Plant), Valhalla, New York, USA  
Capital equipment sourcing/selection (plate-frame heat exchangers, aseptic filling equipment) for processing of beverage concentrate; Use of team approaches in a unionized Pilot-Plant to achieve process improvements.
- May 1984 – June 1987* **Chemical Engineer**  
EXXON CHEMICAL COMPANY, Linden, New Jersey, USA  
Fuel Additive Quality Assurance and Technical/Customer Service; Realization of Pour Point and Differential Scanning Calorimetry (DSC) Tests; Solvent System Selection / Optimization, Fuel Additive Performance Data Analysis; Low Molecular Weight Polymer Crystallization Studies for Resolution of Low Temperature Fuel Transports Issues

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#### **FORMAL EDUCATION**

##### **Bachelor of Science Degree in Chemical Engineering**

New Jersey Institute of Technology (NJIT), Newark, New Jersey, USA  
September 1983 – June 1988

##### **Master of Science Degree in Management & International Business** (Coursework Completed/Degree Issuance Pending)

University of Miami (UM), Miami, Florida, USA  
August 2009 – August 2010

#### **SPECIALIZED TRAINING**

##### **Certificate Program in Global Health Security, Solidarity and Sustainability through the International Health Regulations**

University of Geneva, Switzerland (Online)  
March 2020 – August 2020

##### **Blockchain Basics**

State University of New York College at Buffalo (Online)  
March 2020 - June 2020

##### **The Social and Technical Context of Health Informatics**

Johns Hopkins University (Online)  
March 2020 - June 2020

##### **Law, Technology and Public Policy – Course by Special Invitation**

Massachusetts Institute of Technology (MIT), (On Campus) Cambridge, Massachusetts, USA  
January 2003 – May 2003

##### **Negotiation Certificate Programs - Negotiation/Mediation; Train-the-Trainers in Negotiation**

Harvard Law School, (On Campus) Cambridge, Massachusetts, USA  
January 2003 – May 2003

#### **CERTIFICATIONS / MEMBERSHIPS**

- AWS Certified Cloud Practitioner: Attained in 2018
- Blockchain for Business Certificate: Attained in 2019
- ASQ Certified Manager of Quality and Organizational Excellence: Attained in 1995
- ASQ Certified Quality Engineer: Attained in 1993
- BSI Trained, IRCA Certified Lead Auditor of ISO Management System: Attained in 1993
- 20+ year Member of the US TAG to ISO TC 176 on Quality Management and ISO TC 207 on Environmental Management
- Member of the US TAG to TC 292 (Security, Resilience, Business Continuity)
- QSI Certified Lead Auditor (ANSI Accredited Certificate Program) for:

ISO 9001 – Quality Management Systems

ISO 27001 – Information Security Management Systems

ISO 14001 – Environmental Management Systems,

ISO 45001 – Occupational Health and Safety Management Systems

ISO 50001 – Energy Management Systems

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#### INTERNATIONAL EXPERIENCE

Since 1995 I have made over 250 visits to over 42 countries for speaking engagements as well as for participation in missions/delegations related to ISO management systems standards. Below please find a summary of my entire experience in ISO/ standards-related missions/visits over the past 25 years:

##### Asia

Countries/Territories Visited: 5  
Number of Missions/Visits: 11  
Speaking Engagements: YES  
ISO Related Activities/Negotiations/Training: YES

##### Africa

Countries/Territories Visited: 2  
Number of Missions/Visits: 2  
Speaking Engagements: YES  
ISO Related Activities/Negotiations/Training: YES

##### South America

Countries/Territories: 8  
Number of Missions/Visits: 66  
Speaking Engagements: YES  
ISO Related Activities/Negotiations/Training: YES

##### North America

Countries/Territories: 3  
Number of Missions/Visits: 22  
Speaking Engagements: YES  
ISO Related Activities/Negotiations/Training: YES

##### Caribbean & Central America

Countries/Territories: 12  
Number of Missions/Visits: 138  
Speaking Engagements: YES  
ISO Related Activities/Negotiations/Training: YES

##### Europe

Countries/Territories Visited: 11  
Number of Missions/Visits: 16  
Speaking Engagements: YES  
ISO Related Activities/Negotiations/Training: YES

#### SAMPLING OF INDUSTRY PROJECTS / SERVICE CONTRACTS

CLIENT	PROJECTS / SERVICES	DATES
▪ <b>PEPSICO Concentrates</b>	Software, Training, Audits and Certification Services to improve Environmental Health and Safety Management Systems based on ISO 14001 and ISO 45001; Lead Auditor for more than 30 audits at 6 different international sites	<i>On-going</i>
▪ <b>Edwards Lifesciences</b>	Audits and Certification Services to improve Environmental Health and Safety Management Systems based on ISO 14001 and ISO 4500; Lead Auditor for more than 30 audits at 6 different international sites	<i>On-going</i>
▪ <b>Coca-Cola Beverages</b>	Training, Audits and Certification Services to improve Quality, Food Safety, Environmental Health and Safety Management Systems based on ISO 9001, ISO 22000, ISO 14001 and ISO 45001; Lead Auditor for more than 20 audits at 2 different international sites,	<i>2010 - 2018</i>
▪ <b>Bristol Myers Squibb</b>	Training, Audits and Certification Services to improve Energy, Environmental Health and Safety Management Systems based on ISO 50001, ISO 14001 and ISO 45001; Lead Auditor for 10 audits.	<i>2014 - 2018</i>
▪ <b>Medtronic</b>	Training, Audits and Certification services to improve Quality, Environmental Health and Safety Management Systems based on ISO 13485, ISO 14001 and ISO 45001; Lead Auditor for than 25 audits at 4 different international sites	<i>2014 - 2018</i>
▪ <b>US Department of State</b>	Training and Audits and certification services based on ISO 9001 to improve Quality Management systems at the <b>American Embassies</b> in Buenos Aires, Argentina and Caracas, Venezuela,	<i>2004 - 2006</i>
▪ <b>Central Bank of Venezuela</b>	Training based on OHSAS 18001 to improve Occupational Health and Safety Management Systems.	<i>2004 - 2005</i>
▪ <b>City of Busan, Korea</b>	Audits and Certification Services based on ISO 14001 to improve Environmental Management Systems.	<i>2002 - 2005</i>
▪ <b>Panama Canal Authority</b>	Training based on OHSAS 18001 and ISO 14001 to improve Environmental/ Occupational Health and Safety Management Systems.	<i>1999 - 2000</i>



## SAMPLING OF INTERNATIONAL SPEAKING ENGAGEMENTS

An extensive list of international standards-related missions and speaking engagements has been summarized on previous pages. Below is a more detailed sampling of the more some significant public speaking engagements.

### **Barcelona, 2012**

**Audience:** Delivered a presentation to over 200 engineers, government officials and municipal managers, students and consultants  
**Topic:** "The Application of ISO 9001 for the Improvement of Municipal Management"  
**Invited by:** Colegio de Ingenieros Técnicos de Obras Publicas  
**Representing:** QSI

### **Mexico City, 2007**

**Audience:** Delivered a presentation to over 1000 teachers/professors and formed part of an international panel of experts  
**Topic:** "The Application of ISO 9001 for the Improvement of Educational Processes"  
**Invited by:** The Mexican Government's "Secretariat" (Ministry) of Education. [www.sep.gob.mx](http://www.sep.gob.mx)  
**Representing:** QSI

### **Taipei, 2005**

**Audience:** Delivered presentation before the ISO/IAF Audit Practices Group comprised of delegates from 20 countries  
**Topic:** "How to Audit Electronic-Based Management Systems" in support of ISO 9001 and related standards  
**Invited by:** ISO/IAF Audit Practices Group  
**Representing:** ISO TC 176, [www.iso.ch](http://www.iso.ch)

### **Berlin, 2002**

**Audience:** Over 1000 delegates from more than 50 countries at the annual conference of ILAC/IAF Accreditation Bodies.  
**Topic:** "Challenges facing the Conformity Assessment Infrastructure in the Americas"  
**Invited by:** The International Laboratory Accreditation Association (ILAC) [www.ilac.org](http://www.ilac.org)  
**Representing:** Self

### **Rome, 2001**

**Audience:** Delegates from over 50 countries at the annual meeting of IATCA  
**Topic:** ISO 19011 –"Guidelines for Quality and Environmental Management System Audits"  
**Invited by:** The International Auditor and Training Certification Association (IATCA) [www.ipc.com](http://www.ipc.com)  
**Representing:** IAR Accreditation Services, LLC.

### **Miami, 2001**

**Audience:** African Businessmen & Dignitaries representing the interests of Small & Medium Sized Enterprises in Africa.  
**Topic:** Applying of ISO management systems to improve the competitiveness in the context of business in the USA.  
**Invited by:** Foundation for the Development of Africa (FDA) <http://democracy-africa.org>  
**Representing:** QSI



**EXPERIENCE APPLYING MANAGEMENT SYSTEMS STANDARDS IN VARIOUS TECHNICAL DISCIPLINES**

- **ISO 9001** - This is a standard that contains the requirements for a quality management system. This is the standard with which I started my auditor career. I have worked with the standard almost since its initial publication in 1987. Since 1990 I have performed more than 200 first, second- and third-party audits in 20 sectors indicated by IAF. The IAF Sector Codes for which I am qualified are 01, 02, 03, 04, 07, 08, 09, 10, 12,13, 14, 22, 26, 27, 29, 30, 31, 32, 35 and 37. Since 1996 I have participated in the committees responsible development and maintenance of the ISO 9000 series and related documents.
- **ISO / IEC 27001** - This is a standard that contains the requirements for an information security management system. I have performed about 10 audits based on ISO / IEC 27001 and 3 courses to train auditors/lead auditors. In addition, I have experience implemented ISO 27017 for Cloud Security and ISO 27018 for the Protection of Personally Identifiable Information (PII) In Public Clouds.
- **ISO 18788** - This is a standard that contains the requirements for a management system for security operations. Although its approach is private security, I have applied the standard to audit military and police institutions. To date I have performed 5 Audits based on ISO 18788.
- **ISO 14001** - This is a standard that contains the requirements for an environmental management system. As a chemical engineer, my first experience with the standard dates from its publication in 1996. Since that date I have conducted more than 100 audits and more than 50 courses on ISO 14001.
- **ISO 45001** - Originally published as OHSAS 18001, this standard (Reconfigured using ANNEX SL) contains the requirements for an occupational health and safety management system. Since 1999 I have conducted more than 50 audits and more than 25 courses on OHSAS 18001 and ISO 45001.
- **ISO/IEC13485** - This is a standard that contains the requirements for a quality management system for medical devices. I have more than 15 years of experience teaching courses in the medical device sector based on ISO 13485, in addition, I have performed about 10 audits based on the standard.
- **ISO 22000** - This is a standard that contains the requirements for a food safety management system. In 20 years I have performed more than 15 audits of both HACCP and ISO 22000 as well as the requirements of FSSC 22000 version 4.1. I am qualified for ISO 22003 / CI, CII, CIII, CIV, GI, GII, as validated by EMA and FSSC.
- **ISO 50001** - This is a standard that contains the requirements for an energy management system. To date I have 3 audits of ISO 50001.
- **ISO 19011** - This is a guide for performing management system audits. In the last 20 years I have performed more than 425 audits following the guidelines contained in ISO 19011. In the last 20 years I have taught over 100 Auditor / Lead Auditor courses following the guidelines of ISO 19011.
- **ISO / IEC 17011** - This is a standard that contains the requirements that apply to accreditation bodies. Between 1993 and 1996 I was one of the first to help shape what is now called IAF. I have more than 20 years guiding various accreditation bodies.
- **ISO / IEC 17021-1** - This is the first of a set of standards that applies to certification bodies of management systems. From 1993 to 2018 I directed the operations of a third-party certification body and we were able to achieve accreditation.
- **ISO / IEC 17025** - This is a standard that contains the requirements that apply to quality management systems for laboratories. I have more than 15 years of experience evaluating laboratories, having conducted approximately 30 audits in that span of time. I have also taught the course for Lead Assessors for ISO 17025.
- **ISO / IEC 17065** - This standard applies to certification bodies for products, processes and/or services. I have developed and obtained approval from ANSI for a special scheme based on ISO/IEC 17065, applicable to the automotive industry.