

Enzo Cavaliere, P.Eng., PMP



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Chief Technology Officer
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FIRM

Soteria Company, LLC
2021 - Present

EDUCATION

- Bachelor of Applied Science in Chemical Engineering, University of Waterloo, Canada
- Project Management Institute, Project Management Professional Designation, Canada

AREAS OF EXPERTISE

- Design Engineering and Construction of large scale projects in Canada, USA and international locations
- Hydrogen plant and ancillary design and construction including compression, storage and the distribution systems
- Entrepreneurial in the green energy industry and clean technologies

YEARS OF EXPERIENCE

35 Years

REGISTRATIONS & CERTIFICATIONS

- Member, Project Management Institute
- Member, Professional Engineers, Ontario PEO, Ontario
- Member, The Association of Professional Engineers, Geologists and Geophysicists of Alberta

TECHNICAL EXPERIENCE

Mr. Cavaliere is a resilient project leader with a proven track record in delivering complex multifaceted business endeavors from conceptual/FEED presentations to detailed engineering/bid packages and safe construction execution. His clients count on him for successfully meeting expectations on multi-million\$ CAPEX projects and ensuring a quality operating facility. Areas of expertise include, industrial gas and cryogenic plants, hydrogen SMR and distribution plants, manufacturing facilities design/build, novel clean hydrogen emerging technologies and associated business development activities.

Mr. Cavaliere is a skilled communicator at all organizational levels and has established relationships within the hydrogen ecosystem of technology and general equipment supply companies. His personable and pro-active attitude lays the foundation for world class project execution performance.

Mr. Cavaliere is a passionate seeker of innovative solutions to the most pressing challenges with the adoption of green Hydrogen and is a long-time entrepreneur in the de-carbonization market sector.

RELEVANT AND RELATED EXPERIENCE

- Linde/Praxair (a global industrial gas company) – as Project Manager, led a high-profile international team of technical professionals to design and construct a \$20MM US, 1.2 MCFD SMR Hydrogen facility. The multi-disciplinary team had full responsibility for environmental permitting, procurement, construction and safe start-up of the processing plant located in Butte MT, including Hydrogen compression and storage systems.
- Praxair – as Project Manager, upgraded the hydrogen delivery systems in Sault Ste. Marie and the Liquid Hydrogen pumping system in Montreal, both in Canada. Managing these upgrades in congested and operating process plants required an innovative construction plan that upheld all safety precautions of the company and project.
- Praxair – as Project Manager, managed a team of over 20 international engineering professionals to deliver a 50 ton per day oxygen plant in British Columbia. This project required high levels of expertise in safe materials of construction needed for oxygen as well as an understanding of the process design limitations required for the safe compression and storage of high pressure oxygen gas.
- Praxair China – recruited as Project Manager to provide expertise in the design and delivery of ultra-high purity industrial gases for INTEL's manufacturing plants located in Shanghai and Beijing. This high profile assignment leveraged high levels of expertise in the manufacturing, storage and delivery of Hydrogen, oxygen and nitrogen as well as a trusted network of suppliers who could deliver the equipment needed on time.
- Atlantic Hydrogen and Elementa – as a consultant and engineer, provided the technical lead for developing gasification technologies. The systems were successful in prototyping a new way to produce green Hydrogen gas safely in a new market.
- SNC-Lavalin – PCL (joint venture) – as Project Manager, led the team responsible for the structural steel and piping fabrication for a \$4.5 billion CDN Potash mine expansion in Saskatchewan Canada. The position required the ability to manage over 90 engineers and designers, effectively communicate and report to both SNC and PCL and manage the logistics among third party suppliers across North America and Asia. The effort resulted in a project that met budget two months ahead of schedule.
- Athena Automation Ltd (a plastics manufacturing plant) – as Project Manager, was responsible for the overall management and delivery of a 155,000 ft² manufacturing systems center with a capital budget of \$44 million CDN. The facility showcased the latest LEED and green building technologies that included geothermal in-floor heating and cooling, 1 MW roof-top solar array panels and Hydrogen fuel cell energy storage systems. The showcase facility required a peak trade labour force over just over 120 to complete.
- ZZEN Design – Build – as Director of Projects, oversees the design and delivery of turnkey projects for one of the largest commercial and industrial real estate developers in North Toronto, Canada. The variety of projects required to manage the \$350 million portfolio is vast and offers opportunities on a continued basis to incorporate green technologies as they make sense.