

Place of birth: Ragusa
Date of birth: 18/03/1980
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Professional profile

Engineer and Manager, with 20-years of experience in Process Safety and HSE consultancy services and training for industrial companies, skilled specialist and sales manager, he has also led as CEO a small engineering company which he has contributed to reinforce and expand.

Education

2019-2021 **SDA BOCCONI**, Milan
Executive Master in Business Administration

2006-2008 **POLYTECHNIC OF TURIN**
PhD in Chemical Engineering, concentration on Risk Analysis and Industrial Safety
Master in Reliability, Maintainability and Safety of Complex System

2008 **PRIMATECH**
PHA Team Leader

1999-2005 **POLYTECHNIC OF TURIN**
BA in Nuclear Engineering, concentration on Process and Plant

Continuous training on RAMS & HSE subject, details omitted.

Professional Experience

2022- **Freelance**
Process Safety and HSE consultancy services and training for industrial companies. PHA Chairman.
Business Administration consultancy services.

2006-2021 **RAMS&E srl**, Turin
RAMS&E is a small engineering company offering consultancy services and training in industrial safety, maintenance engineering, environmental analysis for industrial and transportation companies.

Process Safety and HSE Expert Engineer.

Coordinator of the activities delivered in the field of PHA, Training, R&D.

Experiences in:

- RAM Analysis
- FMECA and Fault Tree Analysis
- Risk Assessment (inclusive of FERA, QRA, EERA, Dropped Object)
- Bow tie analysis and Safety and Environmental Critical Elements identification
- Accidental scenarios modelling by means of parametric models and CFD (e.g. fire, dispersion, explosion, etc.)
- HAZOP, HAZID, PHA Team Leader
- SECE Team Leader
- Functional Analysis and SIL Study, Team Leader
- SIMOPS (Simultaneous Operations) Team Leader
- HSE studies for offshore platform
- EX Hazardous Area Classification according to EU ATEX directive
- Training and Development of Didactic Material (slides and booklets), including Quality Assurance activity
- Alarm Management
- HSE activities in compliance with the Seveso Directive (Safety report, notification, selection of Critical Elements, Management of Change, etc.)
- Safety analysis for nuclear waste storage building.
- Development of the P&ID “as built” by means of plant visits

Refer to appendix for details on professional activities.

2019-2021 **RAMS&E srl, Turin**

Chief Executive Officer.

In charge from May 2019 with the following tasks:

- General management with accounting and financial control
- Human resource management
- Strategy and marketing plan development

2008-2022 **Polytechnic of Turin**

Trainer and Professor Assistant.

- Performed 10+ R&D activities in Health and Safety field and issued more than 10 scientific papers
- Trained more than 300 students of energy and nuclear engineering

- Developed new tools and techniques for Health & Safety analyses

Experiences in the research and academic fields

2006-2008 – Research activities achieved during the Ph.D.:

- Academic research about safety aspects for hydrogen production and distribution systems and application of a risk analysis for a hydrogen refueling station for automotive.
- Development of innovative techniques for uncertainty evaluation in the risk analysis for a hydrogen refueling station, with particular deepening of consequence modelling.
- Development of a new Lagrangian Particle Model to study atmospheric dispersion of heavy and light gases.
- Experimental activities about hydrogen release and atmospheric dispersion to support modelling development.

2009-2014: Academic Researcher (post-PhD) at the Politecnico of Torino.

- RAMS (Reliability, Availability, Maintainability and Safety) Analysis and Environment Impact Study of an innovative system able to produce Biogas, Hydrogen and Electric Energy.
- Multi-risk Analysis of the whole territory of the Regione Piemonte including the following natural risks: flooding, seismic, landslide, avalanche, debris flow.
- RAMS Analysis for innovative and pilot plants for the production of Nanomaterials
- Development of Alarm Management tool for the optimization of Operation & Maintenance activities.
- Development of a tool for the risk mapping for FERA and QRA offshore studies.

Several publications on International and National Journals and Conferences about RAMS and HSE topics.

Teaching activities

Since 2007 Lecturer to academic educational activities at the **Polytechnic of Turin**, at the Academic Masters, on the following academic topics:

- Safety and Risk Analysis courses
- Industrial Safety;

- Reliability, Availability, Maintenance and Safety.

Since 2009 Teacher for **ENI University Corporate** on the following professional topics:

- HAZOP and PHA methods
- Industrial Safety and Risk Analysis
- RAM Analysis
- HSE Awareness
- Functional Safety and SIL Analysis
- Process Safety Management
- Root Cause Analysis
- HSE Management System in upstream operations
- Bow tie method and barrier management
- SECE Identification

Language knowledge

Deep knowledge of Italian language, mother tongue-native speaker

Good knowledge of English language

Basic knowledge of French

Further information

Member of Torino Engineers Register since 2006, matriculation number 10279W

Deep knowledge of tools for simulation of physical consequences in case of release of dangerous substances and related hazard scenarios (TNO Effects, DNV Phast).

Advanced computer user

Turin, the 30th March 2026

Francesco GANCI



APPENDIX

DETAILS ON PROFESSIONAL ACTIVITIES

RAMS Analysis (Reliability, Availability Maintainability and Safety), Risk and Safety Analysis

- 2006, Risk analysis for H₂ refueling station, Environment Park S.p.A (Torino)
- 2006, Risk analysis for thermoelectric power plants
- 2006, Risk analysis for off-shore oil&gas platform
- 2009, Safety Assessment for gas compressor domestic system for automotive refueling, BRC (Cuneo)
- 2010, Safety Assessment for an automotive application of Lithium Battery for the Torino Urban Transportation Company (Torino)
- 2011, Safety Analysis for a nuclear waste storage building in Italy
- 2012, Safety Analysis for a H₂ refueling station for autobus for LindeGas Italia (Milano)
- 2013, Safety Analysis for LPG unloading operations for Campweld (Turin)
- 2013, Safety Analysis for manufacturing plant in compliance with EU Severo Directive, Avio
- 2013, Consequence analysis for polymeric plant, ARPA Industriale
- 2014, FERA and QRA for an onshore oli&gas plant located in Italy, FEED Engineering phase, for SAIPEM (Rome)
- 2014, Risk Analysis for an Ammonia Storage and Distribution system, GEAVIO, Torino
- 2015, Risk Analysis for an innovative system for the heat and electricity production by means of fuel cell SOFC and biogas, Turin
- 2015, FERA and QRA for an onshore methanol production plant in Nigeria, FEED Engineering phase, for Saipem (Rome)
- 2016, Risk Analysis for a warehouse of hazardous products according to the D.Lgs. 105/2015, Preliminary and Final Safety Report, Notification, for Messaggerie del Garda, site of Calvignasco (MI)
- 2023, Seveso, evaluation of compliance to D.lgs. 105/2015 for a bioethanol plant.
- 2024, Seveso, analysis and report review for a oil storage plant in Italy.
- 2025, **Bow Tie analysis** on activities performed on a ship for cable installation for Prysmian

HAZID, HAZOP, SIMOPS PHA Chairman

- 2008, HAZOP Scribe for Fuel gas plant in Qatar, Scribe 2 days, RINA INDUSTRY (Genova);
- 2009, HAZOP Scribe Study for an experimental reactor, Rockwood Italy S.p.A., (Torino);
- 2011, HAZOP Team Leader for a R&D Chemical plants for catalyst production, Team Leader 12 days, LyondellBasell Ferrara (Italy);
- 2011, HAZOP support for polymer plant, LyondellBasell Brindisi (Italy)
- 2012, HAZOP Team Leader for a new Pilot plant for LitioFerroFosfato, Rockwood Italy 2 days (Torino)
- 2012, HAZOP Team Leader for nuclear waste storage building, Italy 3 days
- 2012, HAZOP Team Leader for hydrogen refueling station, Lindegas Italia 1 day (Milano)
- 2012, HAZID Team Leader for offshore platform for Oil&Gas, Tecnomare Italia 1 day (Milano)
- 2013, HAZOP Team Leader for Sewage Treatment Packages for Eon Italia 5 days (Vercelli)
- 2013, HAZOP Scribe for a Gas Storage and Distribution, Vacuum and Gas Injection Systems Project 3

days, for Rivoira (Turin)

- 2013, HAZOP/HAZID Team Leader for a EPC platform, including the following units and skids: wellheads and manifolds, three-phase separators, oil treatment and pumps, gas treatment, gas compression and dehydration, glycol regeneration, fire water pumps, emergency diesel generator, power generator turbogas, nitrogen generator, air compressed generator, chemicals injection skids, others auxiliary systems, 17 days, Basis Engineering (Milan)
 - 2013 HAZOP/HAZID Team Leader for a design change in an operative platform, new well, 1 day, Basis Engineering (Milan)
 - 2014 HAZOP Team Leader for a polymer (PET) productive plant, 18 days, Plastipak (Verbania)
 - 2014 HAZOP Team Leader for a Thermal Pilot project to steam injection to wells oil&gas, 3 days, Basis Engineering (Milan)
 - 2014 HAZOP Leader for a Gas Atomizer System for Ti powder production, 3 days, GEAVIO Torino
 - 2014 HAZOP Leader for an Ammonia Storage and Distribution System, 1 day, GEAVIO Torino
 - 2015, HAZOP Team Leader for a EPC platform, including the following units and skids: wellheads and manifolds, three-phase separators, oil pumps, gas treatment, fire water pumps, emergency diesel generator, power gas generator, air compressed generator, chemicals injection skids, others auxiliary systems, 7 days, Basis Engineering (Milan)
 - 2015, HAZOP Team Leader for a Pressurized Degassing System for process water, 1 day, Spirax (Milan)
 - 2016, HAZOP Team Leader for a prototype of a hydrogen and electricity production system by means of electrolyze and fuel cell, 5 days, Electro Power Systems (Torino)
 - 2016, HAZOP Team Leader for the revision of the HAZOP done in the 2014 for the Gas Atomizer System for Ti powder production, 1 day, GEAVIO (Cameri NO)
 - 2016, HAZOP Team Leader for a cogeneration system with natural gas thermal engine, for electricity and chilled water production, 2 days, Plastipak, (Verbania)
 - 2016, HAZOP Team Leader for a cogeneration system for the district heating system for Bologna, 3 days, Gruppo Hera (Bologna)
 - 2017, HAZOP Team Leader for a power plant fed by biomass, 8 days, STC Forlì, for PowerCrop (gruppo Enel GreenPower)
 - 2017, HAZOP Team Leader for a design change in a plant for red pigments production, 4 days, Huntsman Pigments, Torino
 - 2017, HAZOP Team Leader for a bigbag filling system, 3 days, LyondellBasell, Ferrara
 - 2017, HAZOP Team Leader for a design change in a plant of storage and distribution of caustic soda, 3 days, LyondellBasell, Ferrara
 - 2017-2018, HAZOP Team Leader for a design change in a plant for the catalyst production, 4 days, LyondellBasell, Ferrara
 - 2018, HAZOP Team Leader for the FEED of two oil&gas platforms including the following units and skids: wellheads and manifolds, test separator, power generator, chemicals injection skids, pig traps and operations, others auxiliary systems, 4 days, Basis Engineering (Milan)
 - 2018, HAZOP Team Leader for a design change in FSRU in Livorno, to supply LNG to small carriers (Small Scale Project), 2 days, OLT (Livorno)
 - 2021, HAZOP Team Leader for an off-gas system of a polymer (PET) productive plant, 2 days, Plastipak, (Verbania)
 - 2023, HAZID / HAZOP Team Leader for a diesel storage system and feeding to boilers, 4 days, Ferrero
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- 2023, HAZOP Team Leader for a cogeneration system with waste furnace and steam turbine, FEED phase, 5 days, AISA Impianti, (Arezzo)
- 2024, HAZID and HAZOP Team Leader for a Power Station project (Fuel Gas system, Diesel storage system, Instrumented Air system, Turbine interface), 4 days (Milano)
- 2024, SIMOPS Team Leader for a pig trap installation offshore, 1 day (Milano)
- 2024, HAZOP Team Leader for a HCl storage system, 1 day, Brindisi.
- 2024, HAZOP Team Leader for a well and flowline system, onshore, 1 day, Viggiano.
- 2024, HAZID and HAZOP for design modifications in an oil&gas platform in Lybia, topside systems, 8 days, Milano
- 2025, HAZID and HAZOP for design modifications in an oil&gas platform in Lybia, subsea systems, 4 days, Milano
- 2025, HAZOP Team Leader for a cogeneration system with waste furnace and steam turbine, EPC phase, 4 days, AISA Impianti, (Arezzo)
- 2025, HAZOP Team Leader for a cogeneration system with waste furnace and steam turbine, EPC phase, 4 days, Smurfit Westrock, (Verzuolo)
- 2025, SIMOPS Team Leader for a vessel installation activity, onshore, 1 day (Viggiano)
- 2025, HAZOP Team Leader for a new boiler installation in power plan, 4 days, Saipem (Ravenna)
- 2026, HAZOP Team Leader for a N2 package installation on MAE1, 1 day, Viggiano.
- 2017-2019, coordination of HAZOP activities (generally PHA including HAZID and What-if) for oil&gas, chemical, and power plants. The Team coordinated by me was composed by 4 Team Leaders. Management of internal training for new scribes and leaders.

Process Safety and HSE Studies for off-shore platform, oil&gas installations

- Dropped Object Analysis
- SECE (Safety and Environmental Critical Elements identification) and Bow Tie development, Chairman
- SIMOPS (Simultaneous Operations), Chairman
- Flare and Vent study (Thermal radiation and dispersion impact)
- Exhaust dispersion by means of CFD study
- EERA (Evacuation, Escape and Rescue Assessment)
- QRA (Quantitative Risk Assessment)
- FERA (Fire and Explosion Risk Analysis)
- Human Factor Analysis (Chairman)
- Noise study
- Helicopter crash assessment
- SIL Allocation and SIL Verification
- OIMR (Operation, Inspection, Maintenance, and Repair Philosophy)
- 2016-2018 – Collaboration with the SEADOG group of the Polytechnic of Turin for the development of Guidelines for the preparation of the Report of Major Hazards in accordance with the D.lgs. n. 145 of 18/08/2015 (EU Safety Offshore Directive)

Functional Analysis and SIL Study in compliance with IEC 61508 and 61511

- 2006, SIL Verification Analysis for valve systems according to IEC61508, Certification Body (Italy);

- 2006, SIL Verification Analysis for protection loops of a gas turbine in a combined-cycle power plant, PI GRECO s.r.l (Torino);
- 2007, SIL Verification Analysis for protection loops according to IEC 61508, Oil & Gas Engineering Company (Italy);
- 2008, Analysis and Study of valves systems, according to IEC 61508, Certification Body (Italy);
- 2011; SIL Allocation Team Leader and Verification activities according to IEC61508/61511 for Pilot Plant and Catalyst Manufacturing, Basell Poliolefine Italia s.r.l. (Ferrara) more than 30 days of workshop
- 2012, SIL Allocation Team Leader and Verification activities according to IEC61508/IEC61511 for Oil Export facility, Tecnomare (Milano)
- 2015, SIL Allocation, Team Leader, for an offshore platform for an Engineering Company in Milan.
- 2016, Functional Analysis and SIL study for a prototype of an hydrogen and electricity production system by means of electrolyze and fuel cell, 1 day, Electro Power Systems (Torino)
- 2016, Functional Analysis and SIL study for a cogeneration system for the district heating system for Bologna, 1 day, Gruppo Hera (Bologna)
- 2017, Functional Analysis by means of LOPA for a living quarter protection system based on gas detector, 1 day, Basis Engineering (Milano)
- 2018, SIL Allocation, Team Leader, for two offshore platforms for Basis Engineering Company in Milan, 2 days.
- 2023, SIL Allocation Team Leader for a cogeneration system with waste furnace and steam turbine, FEED phase, 2 days, AISA Impianti, (Arezzo)
- 2024, SIL Allocation and LOPA for design modifications in an oil&gas platform in Lybia, topside systems, 3 days, Milano
- 2025, SIL Allocation Team Leader for a cogeneration system with waste furnace and steam turbine, EPC phase, 1 day, AISA Impianti, (Arezzo)
- 2025, SIL Allocation Team Leader for a cogeneration system with waste furnace and steam turbine, EPC phase, 1 day, Smurfit Westrock, (Verzuolo)
- 2025, SIL Allocation Team Leader for a boiler with cogeneration system, 1 day, Le Gaz Integral (Francia)