

Born in Savona (Italy) the 22/08/1974

CURRICULUM VITAE

EDUCATION

1993 – Liceo San Giuseppe Calasanzio di Carcare (SV): General Certificate of Scientific Education (grade 60/60).

2000 – Politecnico di Torino: **Degree in Environmental Engineering** (grade 106/110).

Graduation thesis: “Development of new techniques for the consequence analysis of major accidents in complex technological systems” (tutors: prof. G. Del Tin, prof. A. Carpignano) in cooperation with the Joint Research Centre of the European Communities (Ispra site, Italy).

2002 – Politecnico di Torino and COREP (Consorzio per la ricerca e l’educazione permanente): **Master in Industrial Safety and Risk Analysis**.

Master thesis: “Fire risk assessment and reduction in combined cycle power plants” in cooperation with the consulting company RAMS&E pscarl.

2002-2004 – Politecnico di Torino: **PhD in Industrial Safety and Risk Analysis**.

PhD thesis: “Risk based approach to fire safety in historic buildings” (tutor: prof. A. Carpignano) in cooperation with Comune di Siena.

Continuous training on HSE matters up to now

WORK EXPERIENCE

Since 2016, January, **RAMS&E srl, Technical Manager** of the RAMS Area. Technical responsibility of the activities carried out in the RAM, HSE and TTI sectors (see www.ramse.it at Competences). Technical coordination of the HSE sector as HSE sector responsible.

Since 2010, May, **RAMS&E srl (Torino), HSE & Training Sector Responsible, Partner**.

Coordination of the activities delivered by HSE and Training Sectors, covering Safety Reports according to Seveso Directives, Quantitative Risk Analyses, firefighting engineering and ATEX studies, OH&S Risk Assessments, Audit and Assessments of HSE Management Systems, Training Courses on RAMS

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and HSE topics (See RAMS&E CV at www.ramse.it/esperienze for more detail).

Since 2009, July, **DNV Italia srl**, Key Customer Management Department (Agrate Brianza) – **Project Leader** – Project management of HSE services delivered to companies in different industry sectors.

Since 2008, January – **DNV Italia srl**, Energy Sector, Agrate Brianza, **Lead Assessor** – 3rd party audits of HSE management systems for major companies in the industry sectors Energy and Oil and Gas.

Project management of HSE services delivered to major companies in the industry sectors Energy and Oil and Gas.

Since 2006, October – **DNV Italia srl**, Milan Unit – **Lead Auditor** – 3rd party audits of HSE management systems (according to standards ISO 14001 and OHSAS 18001) in major companies in different industry sectors.

Rating and assessment of HSE management systems for refineries, chemical plants, LPG plants, natural gas distributions networks.

Since 2005, May up to 2006, October – **Assystembrime Italia** (Turin, Italy) – RAMS&ILS senior engineer (RAMS: Reliability, Availability, Maintainability, Safety – ILS: Integrated Logistic Support).

Since 2005, May up to 2006, May – Assystembrime Italia (Turin, Italy) – employed as resident consultant within **ALSTOM Transport Belgium** (Charleroi) as RAMS project manager for rail and metro traction systems. Description of the main activities performed:

- Specification and allocation of RAMS requirements
- Planning and coordination of the RAMS activities by partners and suppliers
- Validation and integration of the RAMS studies submitted by the suppliers and redaction of the documentation required by the contract
- Identification of the criticalities and definition of corrective actions.

Since 2000 up to 2005, May – Collaboration with **RAMS&E pscarl** (Turin, Italy), a consulting company performing RAMS analysis of complex technological systems and environmental impact analysis of plants and infrastructures. A list of the main activities carried out for Italian and International customers follows.

RAMS (Reliability, Availability, Maintainability, Safety) analysis

- Reliability and availability analysis of power plants, district heating networks, off-shore and on-shore oil and gas production and treatment systems, chemical plants.
- Reliability assessment according to IEC61508 & IEC61511 (SIL classification) for critical safety systems in chemical plants.

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- Reliability analysis of fire fighting devices.

Industrial safety, health and safety of workers

- Risk Analysis of combined cycle power plants, off-shore and on-shore gas and oil production and treatment systems, bulk carriers, chemical plants, waste incinerators.
- Training of technicians and fire officers in assessing consequences of major accidents in chemical plants.
- Design of fire fighting systems in combined cycle power plants.
- Fire modelling in buildings.
- Dispersion modelling of the combustion products of large outdoor fires.

RESEARCH EXPERIENCE

2000 – Research and development of a software tool for the consequence assessment of accidents in industrial systems (in cooperation with Politecnico di Torino and the JRC of the European Commission, Ispra site).

2001 – Assessment of the uncertainty in risk analysis of chemical plant (in cooperation with the JRC of the European Commission, Ispra site).

2001-2003 – Research and development of innovative techniques for RAMS analysis of network systems (application to district heating networks, in cooperation with Politecnico di Torino).

2003-2004 – Development of a Risk Based approach to fire safety in historic buildings (in cooperation with Politecnico di Torino and Comune di Siena).

Publication of technical papers in proceedings of Italian and International Conferences.

TEACHING ACTIVITY

Since 2002, teaching activity concerning consequence assessment of industrial accidents, risk analysis and evaluation, process safety, asset integrity, safety and environment management systems in:

- Master in Reliability, Safety and Maintenance of Industrial Systems and Master in Environmental Design and Environment Management (Politecnico di Torino).
- Master in Industrial Engineering and Operations (SUPSI).
- Master in Petroleum Engineering (Politecnico di Torino).
- In-house training courses for major Companies in different industry sectors.

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LANGUAGE KNOWLEDGE

Italian – Native speaker.

English – Good, Cambridge First Certificate in English in 2004 (grade A).

French – Good.

OTHER RELEVANT INFORMATION

Qualified as Lead Auditor for OH&S and environmental management systems: more than 100 days of third party Environmental Management audits since 2007 to 2010 (ISO 14001) and more than 130 days of third party OH&S Management audits since 2007.

Member of the national register of accredited engineers (Provincia di Torino, 13222).

Partner of the consulting company RAMS&E since 2010.

Qualified for the certification of fire-fighting systems in Italy (DM 05/08/2011)

Participation to several Italian and International Conferences concerning RAMS analysis and Risk analysis issues.

Torino, 2017-01-03

Gabriele Ballocco