

RICCARDO RATTI

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Date of Birth: 8th December 1990

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Nationality: Italian

Work Experience

Arthur D. Little Milan, Italy	<u>Business Analyst I / Business Analyst II / Business Analyst III</u> <u>Research Analyst</u>	01/2016 – Present 09/2015 – 01/2016
	✓ Consulting in Process Safety and Risk for O&G and Chemical companies	
Technische Universität Berlin Berlin, Germany	<u>Research Assistant</u>	08/2014 – 03/2015
	✓ Developed a dynamic reactor model for the abatement of sulfur compounds	
Techint S.p.A. Milan, Italy	<u>Full Time Intern</u>	03/2012 – 06/2012
	✓ Improved company knowledge transfer and training materials, developing the reference handbook on Shell & Tube heat exchangers	

Education

Politecnico di Milano Milan, Italy	<u>M.Sc. in Chemical Engineering</u>	09/2012 – 07/2015
	✓ Final grade 110/110	
	✓ Obtained ERASMUS, ATHENS and Roberto Rocca Foundation scholarships	
	✓ Attended elective class on professional liability, final grade 30/30 cum laude	
	✓ Collaborated with TU Berlin for M.Sc. Thesis	
INPT – ENSIACET Toulouse, France	<u>ERASMUS Exchange Student</u>	01/2013 – 06/2013
	✓ Génie des Procédés et Informatique	
Politecnico di Milano Milan, Italy	<u>B.Sc. in Chemical Engineering (97/110)</u>	09/2009 – 09/2012
	✓ Final grade 97/110	
	✓ 3-month internship at Techint S.p.A., on design and verification of heat exchangers	

Languages

<u>Italian</u>	<u>English</u>	<u>French</u>	<u>German</u>
Mother Tongue	Excellent (C2)	Excellent (C1)	Good (B2)

Computer Skills

<u>Microsoft Office</u>	<u>VBA</u>	<u>MATLAB®</u>	<u>C/C++</u>
Excellent	Good	Good	Intermediate

Publications

Arthur D. Little	<i>E&P cost reduction through technology assessment (Viewpoint)</i>
CCPS ME Process Safety Conference, Bahrain	<i>A Value-Based Approach for the Evaluation of Investment Options in Oil & Gas Plants</i>
ICheaP13, Milan	<i>Asset Integrity Management System (AIMS) for the reduction of industrial risks</i>

Key Projects in Arthur D. Little

HAZOP and SIL on Steam Cracking Plant

Major Petrochemical Company France	<u>HAZOP Scribe</u> <ul style="list-style-type: none">✓ 5 weeks of analysis (ongoing) according to ISO.IEC:31010✓ Maintained HAZOP notes in French✓ Documented best practices in similar sites✓ Identified “quick wins” among recommendations✓ Identified and performed LOPA on Safety Instrumented Functions (SIF) according to IEC 61508 and IEC61511✓ Led the discussion for major sections of the analysis	04/2018 – Present
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Technology Assessment for subsea cost reduction using wireless solutions

Supermajor O&G Company Italy/UK	<u>Business Analyst</u> <ul style="list-style-type: none">✓ Scouted 30+ vendors assessing how to remove umbilicals from subsea✓ Developed a 7-year roadmap, for the company to develop and implement new technologies and cut costs by 18% on oil fields and 16% on gas fields	06/2017 – 11/2017
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Process Safety Management Audit on EVA and Polymer plants

Major Petrochemical Company Germany, Italy	<u>Auditor</u> <ul style="list-style-type: none">✓ Conducted Process Safety Management (PSM) Audits according to OSHA 29 CFR 1910.119 and CCPS guidelines✓ Independently assessed over 10 PSM elements, through document review and one-on-one interviews at multiple levels of the hierarchy✓ Highlighted recommendations and needed improvements based on best practices and requirements from international standards, reported findings to Site and HQ management✓ Developed and benchmarked Key Performance Indicators at Company level	02/2018 – 03/2018
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Root Cause Analysis on an EVA reactor incident

Major Petrochemical Company Germany	<u>RCA Scribe</u> <ul style="list-style-type: none">✓ 2 weeks of analysis following a crack in a high pressure reactor✓ Developed a Literature Review for similar cases and technologies✓ Interviewed key plant personnel on latest related events✓ Based on findings and literature, identified root causes and recommendations to Site Management	04/2018 – 05/2018
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EPC Phase HAZOP on Hydrocracking Plant

Major O&G Company Italy	<u>HAZOP Scribe</u> <ul style="list-style-type: none">✓ 6 weeks of analysis according to ISO.IEC:31010, for a highly innovative hydrocracking technology✓ Maintained HAZOP notes in Italian✓ Assessed potential technological solutions for their main issues and successfully presented results to Company management	06/2018 – 08/2018
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