

Curriculum Vitae	
Europass	
	
Personal information	
First name(s) / Surname(s)	Mario Varruciu
Address(es)	Via Francesco Pes, 12, 09044, Quartucciu, Cagliari, Sardinia, Italy
Telephone(s)	Home: +39 070 881821 - Mobile: +39 3351357765
E-mail	mario.varruciu0@gmail.com
Nationality	Italian
Date of birth	21 April 1967
Gender	Male
Desired employment / Occupational field	Electrical/Instrument Engineering Superintendent/Coordinator
Company	Eurallumina S.p.A. U.C. Rusal
Core Business	Production of Alumina
Work experience	
Dates	January 1993 – March 1995
Occupation or position held	Assistant of Responsible of Electrical Distribution Network (from low to high Voltage – 245 kV)
Main activities and responsibilities	Preparing maintenance procedures of electrical equipment (Switchboards, breakers, CT, VT, relays, VSD, transformers, electric motors, PFC, emergency Diesel generator, PLC, UPS, etc.) and instrumentation equipment (pressure, level, temperature, vibration, weight, flow, refractor meter, conductivity gauge and DCS)
	Supervising maintenance activities of contractors
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	April 1995 – onwards
Occupation or position held	Coordinator of technical office of Engineering Department (Electrical/Instrument section)
Main activities and responsibilities	Preparing yearly budget for investment in electrical/Instrument sector
	Managing electrical/Instrument projects from design to start-up (both new and existing systems)

	Analysing fault on electrical and instrumentation equipment and issuing technical report with solutions to the problem
	Coordinating activities of four experienced technicians and engineering contractor for design
	Organising periodically safety meeting of the division
	Managing relationship with Insurance Company of the Plant for electrical/instrument section
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	March 1998 – January 2000
Occupation or position held	Y2K team coordinator for Millennium Bug
Main activities and responsibilities	Preparing technical procedures to check data-sensitive equipment
	Meetings with Suppliers to discuss solution to the Y2K issue
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	January 1995 - onwards
Occupation or position held	Coordinator of technical office of Engineering Department (Electrical/Instrument section)
Main activities and responsibilities	Managing the Power Supply Contract of the entire plant
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	September 1998 – May 1999
Occupation or position held	Project Leader
Main activities and responsibilities	Analysing project for reduction of overhead cost of facility in cooperation with external consultant firm
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	August 2007 - onwards
Occupation or position held	Supervisor of Russian Company for revamping of electrical infrastructure in the Australian Alumina refinery
Main activities and responsibilities	As a member of ETG (Electrical Technical Group) he is supervising main projects of Power Supply System Strategy Plan in one of the world's largest Alumina Refineries in Australia (QAL Ltd – Rio Tinto Group/Rusal)

Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	July 2007 – onwards
Occupation or position held	Project Manager
Main activities and responsibilities	Designing and preparing feasibility studies of renewable energy system (photovoltaics and wind) for industrial sector
Name and address of employer	Independent consultant
Type of business or sector	Renewable energies
Dates	November 2010
Occupation or position held	Supervisor of Russian Company for survey on electrical infrastructure in the Ewarton plant of Windalco, alumina refinery in Jamaica
Main activities and responsibilities	Studying potential risks on electrical infrastructure and adequate remediation actions plan
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	December 2010
Occupation or position held	Supervisor of Russian Company for studying condition for plant restart of Kirkvine - alumina refinery of Windalco in Jamaica
Main activities and responsibilities	Inspection and analysis of status of equipment and potential risks on electrical/instrument and generation infrastructure and suitable remediation actions plan.
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	March 2011
Occupation or position held	Expert engineer of Russian Company
Main activities and responsibilities	Give technical support on electrical maintenance issues to electrical engineering team of Friguia plant (Guinea - Africa)
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	July 2011
Occupation or position held	Expert engineer of Russian Company in the reliability team for electrical infrastructure of the QAL alumina refinery
Main activities and responsibilities	The reliability team uses a new method to study the risk of electrical infrastructure loss and resulting outages of the plant and loss of production level. This analysis is related to analyse equipment risks.

	After that a strategic action plan will be implemented to mitigate these risks.
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	August 2011
Occupation or position held	Expert engineer of Russian Company in the reliability team for electrical infrastructure of the QAL alumina refinery
Main activities and responsibilities	The reliability team uses a new method to study the risk of electrical infrastructure loss and resulting outages of the plant and loss of production level. This analysis is related to analyse operations and maintenance risks. After that a strategic action plan will be implemented to mitigate these risks.
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	September 2011 - onwards
Occupation or position held	Superintendent of electrical and instrumentation workshops and of Electrical Distribution System
Main activities and responsibilities	Management of operations of electrical & instrumentation and of Electrical Distribution System
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	March 2012 - onwards
Occupation or position held	Expert engineer of Russian Company in the reliability team for electrical infrastructure of the QAL alumina refinery
Main activities and responsibilities	As a member of ETG (Electrical Technical Group) he is supervising the progress of main projects of Power Supply System Strategy Plan in one of the world's largest Alumina Refineries in Australia (QAL Ltd – Rio Tinto Group/Rusal)
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	January 2014 - June 2014
Occupation or position held	E&I Engineering Superintendent
Main activities and responsibilities	As a member of technical team supporting Worley Parsons for studying bauxite change project for Eurallumina plant.
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical

Dates	January 2013 - onwards
Occupation or position held	E&I Engineering Superintendent
Main activities and responsibilities	Technical expert, in E&I sector, for studying of restart conditions of Eurallumina facility. These studies involve deep process modification to reduce specific consumption of electricity, fuel oil and caustic soda, all actions for restoring existing E&I systems, modifications of HV (245kV) link with National Grid and incentives for the new projects.
Name and address of employer	U.C. Rusal next to Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	March 2014 - onwards
Occupation or position held	E&I Engineering Superintendent
Main activities and responsibilities	Member of Eurallumina team for supporting the Front End Engineering Design study of CHP with CFB technology using coal. The Contractor is Amec Foster Wheeler. I manage technical aspects of Electrical, Instrumentation and DCS.
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Dates	July 2016 - onwards
Occupation or position held	E&I Engineering Superintendent
Main activities and responsibilities	Member of Eurallumina team for supporting the alternative solution to CHP project. This study consists in importing steam and electricity from ENEL (Electricity Producer Company). I manage E&I aspects of this project. The Contractor is Amec Foster Wheeler.
Name and address of employer	Eurallumina S.p.A., Zona Industriale Portovesme, 09010, Portoscuso (CI), Italy
Type of business or sector	Chemical
Education and training	
Title of qualification awarded	Master's degree of Electrical Engineering
Principal subjects	Electrotechnical, design of electrical system from low to high voltage
Name and type of organization	Engineering University, Cagliari, Italy
Personal skills and competences	
Mother tongue(s)	Italian

Other language(s)	
Self-assessment	
European level (*)	(*) Common European Framework of Reference for Languages
English	Understanding (Listening B2, Reading B2) - Speaking (Spoken interaction B2 - Spoken production B2) - Writing B2
French	Understanding (Listening A2, Reading A2) - Speaking (Spoken interaction A2 - Spoken production A2) - Writing A3
Social skills and competences	Team work: I have worked in various types of team projects (for reduction of plant costs)
Organisational skills and competences	Leadership: I am the leader for several projects (for instance "Millennium Bug", Safety meeting of the division, technical design of electrical and instrumentation systems)
Technical skills and competences	Knowledge in electrical (from low to high voltage) and instrumentation systems both design and maintenance aspects.
	Knowledge in troubleshooting of electrical and instrumentation systems.
	Deep experience in coordinating of experienced technicians and engineering contractors.
	Considerable experience in managing electrical and instrumentation projects from design to start-up phase.
	Sensible experience in managing the Power Supply Contract of the entire plant.
	Interesting experience as a member of international technical group referred to management of the Power Supply System Strategic Plan in the one of the world's largest Alumina Refineries in Australia (QAL Ltd in Gladstone – Rio Tinto Group/Rusal)
	Useful experience on designing and preparing feasibility studies of renewable energy systems (wind and photovoltaics)
	Technical expert for U.C. Rusal for worldwide plants (Jamaica, Australia, Guinea and Italy) related to electrical and instrumentation infrastructure.
Achievements	Installation of new electrical motor (asynchronous of 1.8 MW) with VSD in MV (3.3 kV) instead of a turbine as prime mover. In this case savings are quantified for Eurallumina in more than 400K€/year increasing significantly the reliability of the system;
	Studying, in cooperation with Service and Material Procurement Department, a new type of the Power Supply Contract of the entire plant. In 2008 with a personalized Contract Eurallumina saved more than 1M€.
	Replacement of several HV (245kV) equipment such as Circuit breakers, disconnectors, surge arresters, etc.
	Replacement of several MV (15 kV and 3 kV), and LV (0,4kV) Switchgears, Power Centers, MCCs, circuit breakers, for obsolescent issue.
	Replacement of 60 power transformers 15kV/3kV/0,4kV with PCB oil-filled with ones with mineral oil-filled for environmental issue.
	Experimentation of several type of instruments adjusting them in the process with cooperation of manufacturer

	Extraordinary overhaul of two main power transformers 29MVA 230kV/15kV executed in field in order to reduce costs and time.
	Mothballing activities for HV, MV and LV equipment
Computer skills and competences	Competent with most Microsoft Office programmes and electrical software released by different suppliers
Artistic skills and competences	Competent to use software for editing video
Other skills and competences	Certificate in First Aid, join in different technical conventions
Driving licence	I am a holder of an Italian drivers licence. Category B vehicle
Additional information	Courses
	I am a teacher in the course about the purchasing of electric power for the Association of buyers
	Personal interests
	Riding a bicycle, collecting stamps, editing video, beach volleyball, volleyball
Signature	