

## PERSONAL INFORMATION



## Dott. Ing. Marco Antonini

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Cod. Fisc. NTNMR71D05D704S

Sex M | Date of birth 05/04/1971 | Nationality Italian

## POSITION

CEO of ZERO3 S.r.l.  
Consultant and freelancer.

## WORK EXPERIENCE

From May 2000 to  
October 2019

at Sogliano Ambiente S.p.A.

Registered office Piazza Garibaldi n. 12 - 47030 Sogliano Al Rubicone (FC) Italy.

Company specialized in the management of waste, its recovery and its disposal in landfills, with the production of electricity from the recovery of biogas in cogeneration plants.

Responsible with delegation of expenditure of the Technical and Management Services of the waste disposal plants, management of several Cogeneration plants and of a landfill leachate treatment plant.

## EDUCATION AND TRAINING

- 21.09.2019 AIFOS and Strike Srl: Equipment updating course - Enabling the management of specific Truck Crane equipment.
- 13.04.2019 AIFOS and Strike Srl: Equipment updating course - Qualification to run specific work equipment Agricultural or Forestry Tractors with wheels.
- 23.03.2019 AIFOS and Strike Srl: Equipment updating course - Qualification to run specific work equipment Hydraulic excavators, Front loaders, Backhoe loaders.
- 09.03.2019 AIFOS and Strike Srl: Equipment updating course - Enabling the management of specific PLE work equipment.
- 01.12.2018 Strike Srl: "Work at height" course.
- 23.11.2018 ION Science Italia Srl at CNR Bologna Research Area: Innovative Technologies for Landfill Monitoring 2020 - Management, Modeling, Fugitive Emissions, Odors and Thermography.
- 20.10.2018 Strike Srl: Course "3rd Category PPE - Correct use, training and conservation".

- From 10.11.2017 to 24.11.2017 AIFOS and Strike Srl: Refresher course for ASPP - RSPP - RSPP employer.
- 19.06.2017 GE Power: Certificate of participation in the DIA.NE XT4 course – Update.
- 05.05.2017 Strike Srl: Refresher course for Fire Fighting Officer in High Fire Risk Activities.
- From 24.02.2017 to 24.03.2017 AIFOS and Strike Srl: Refresher course for ASPP and RSPP.
- From 26.10.2016 to 11.11.2016 AIFOS and Strike Srl: Refresher course for ASPP and RSPP.
- From 12.02.2016 to 18.03.2016 AIFOS and Strike Srl: Refresher course for ASPP and RSPP.
- From 22.10.2015 to 20.11.2015 AIFOS and Strike Srl: Refresher course for ASPP and RSPP.
- 16/09/2015 Obtaining qualification of 2-level non-destructive test in accordance with UNI EN ISO 9712: 12 in the civil, electrical and process analysis for thermographic surveys.
- From 14.01.2015 to 23.01.2015 CONGENIA, Order of Engineers of the Province of Rimini, Order of Engineers of the Province of Forlì-  
From 04.02.2015 to 13.02.2015 Cesena: First fire prevention refresher course pursuant to art. 7 of Ministerial Decree August 05, 2011 - Second and third teaching units.
- From 03.12.2014 to 19.12.2014 CONGENIA, Order of Engineers of the Province of Rimini, Order of Engineers of the Province of Forlì-  
Cesena: First fire prevention refresher course pursuant to art. 7 of Ministerial Decree August 05, 2011 - First teaching unit.
- 15.12.2014 AIFOS and Strike Srl: Certificate of qualification with verification of learning of Mobile Cranes.
- From 12.09.2014 to 26.09.2014 AIFOS and Strike Srl: Certificate of qualification with verification of truck crane learning.
- From 21.06.2014 to 27.06.2014 AIFOS and Strike Srl: Certificate of qualification with verification of learning Employees operating self-propelled lift trucks with driver on board.
- From 09.04.2014 to 11.06.2014 AIFOS and Strike Srl: Refresher course for ASPP and RSPP.
- From 04.04.2014 to 15.04.2014 AIFOS and Strike Srl: Certificate of qualification with verification of learning Earth moving machines (MMT).
- From 11.03.2014 to 25.03.2014 AIFOS and Strike Srl: Certificate of qualification with verification of learning Employees operating agricultural or forestry tractors.
- 15 e 22.02.2014 Strike Srl: Refresher course for Fire Fighting Officer in High Fire Risk Activities.
- From 07.02.2014 to 25.02.2014 AIFOS and Strike Srl: Certificate of qualification with verification of learning Elevating mobile work platforms (PLE).
- From 17.05.2013 to 29.05.2013 AIFOS and Strike Srl: "New obligations and new methods of compliance" in the field of health and safety at work.
- From 13.03.2013 to 12.04.2013 Strike Srl: Training of Executives Legislative Decree 81/2008 and subsequent amendments.
- From 26.02.2013 to 19.03.2013 AIFOS and Strike Srl: "New obligations and new methods of compliance" in the field of health and safety at work.
- From 13.11.2012 to 27.11.2012 AIFOS and Strike Srl: Legal and regulatory aspects of Legislative Decree 81/08.

14.06.2012	AICQ: Certificate of participation for the National Conference "Evaluating Safety - The improvement of prevention systems".
From 25.01.2012 to 14.02.2012	AIFOS and Strike Srl: Legal and regulatory aspects of Legislative Decree 81/08.
From 18.11.2011 to 15.12.2011	AIFOS and Strike Srl: Legal and regulatory aspects of Legislative Decree 81/08.
From 07.11.2011 to 09.11.2011	Italian Composting Consortium (Ecomondo 2011): Certificate of participation in the advanced course "The Production of Compost and Biogas from organic waste".
From 23.05.2011 to 25.05.2011	GE Energy: Certificate of participation in the Level 15, -TJE course.
From 22.03.2011 to 24.03.2011	GE Energy: Certificate of participation in the Level 10 course, -OPT.
28.07.2010	Movicon Scada / HMI training course: Movicon11.
09.06.2010	PMI Service Center - Forlì Cesena: mandatory laboratory tests required by the Machinery Directive.
27.05.2010	PMI Service Center - Forlì Cesena: Used, reconditioned, self-built, rental machinery.
18.05.2010	PMI Service Center - Forlì Cesena: Necessary requirements for components and equipment.
13.12.2008	Ministry of the Interior, Fire Department of Public Rescue and Civil Defense - Provincial Command of the Fire Brigade - Forlì-Cesena: Certificate of Technical Suitability for the fulfillment of the role of firefighter - High Risk.
From 15.09.2008 to 27.10.2008	PMI Service Center - Forlì Cesena: Autodesk Inventor course attendance certificate.
From 02/03/2007 to 01/04/2008 with continuing education to date	Training course for the Prevention and Protection Service Manager (RSPP) according to all the operational ATECO codes, in compliance with the provisions of Legislative Decree 81/2008 and amendments, with mandatory training completed and valid.
From 15.03.2006 to 18.03.2006	ISES Italia training school: "Photovoltaic systems: technical-architectural design.
From 01/05/2005 to 06/08/2005	Specialization course in Fire prevention for the registration of professionals in the lists of the Ministry of the Interior as per the law of 07/12/1984 n. 818. Passing the final exam with examination and issuing of training certificate. Registration maintenance according to current legislation.
From 01.02.2005 to 30.04.2005	Order of Engineers of the Province of Rimini: Specialization course (100 hours) fire prevention for professionals (art.5 of D.M. 25.03.1985).
From 20.05.2004 to 27.05.2004	UNAE Emilia Romagna and CEI (Italian Electrotechnical Committee): "Carrying out of electrical work in the out of voltage and in the vicinity (in HV and LV) and in the live (in LV).
From 19.02.2004 to 26.02.2004	Pasi per.ind. Antonio: Certificate of attendance to the course for firefighter for activities with medium fire risk.
Febbraio-Marzo 2003	Order of Engineers of the province of Forlì-Cesena and COMET Group: Certificate of participation in the lighting course "Lights and Shadows".
From 05.10.2001 to 09.11.2001	Order of Engineers of the province of Forlì-Cesena: Rapid calculation of the limit states of sections in c.a..
From 24.06.1999 to 29.07.1999	ENAIIP of Forlì: Introduction to CAD drawing.

Bologna University  
 From 1992 to July 2000 Degree in Construction Engineering  
 Registration Engineers Register of the Province of Forlì-Cesena from 21 February 2001.

## PERSONAL SKILLS

- Acquisition of specific skills for the management of complex plants such as cogeneration plants for which I am in charge of operational technical management, functionality checks, maintenance and management of continuous control systems of atmospheric emissions.
- Acquisition of specific skills in the management of landfill biogas collection and treatment plants.
- Acquisition of specific skills in the organization and management of landfills for non-hazardous waste, in relation to landfill cultivation activities, management of operating personnel and site cultivation planning activities, as well as the design, construction and management of plants related to the correct management of the site waste for disposal.
- Competences regarding the operational management of the plant for the treatment of landfill leachate, taking care of its operational management, functional optimization and ordinary and extraordinary preventive maintenance.
- Acquisition of skills in the landfill management methodology for non-hazardous waste.
- Technical operational management of the maintenance of the work means used for the management of waste in landfills, with technical and economic evaluations of the functionality and yields.
- Management of orders and purchases with market surveys for the management of the relevant plants.
- Management of budget control and drafting of documents with forecasts of expenditure and / or estimates.
- Management of construction sites for the construction of cogeneration plants and assistance with technical and functional tests. Management of construction sites for the final coverage of landfills.
- Development of specific Operating Instructions for carrying out work in the landfill and in the managed plants, in compliance with the legislation on safety at work and acquired by the specific certification system (BS OHSAS 18001).

Mother tongue Italian

Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B1

Communication skills

- Acquire methodologies for optimizing work meetings and organizing operational tasks.
- Acquired relational experience for the auditing activities carried out during the company certification activities to obtain the UNI ISO 14001, UNI ISO 9001, EMAS (Reg. CE / 1221/09), BS OHSAS 18001 certifications.
- Acquired relational experience for the management of orders and purchases with suppliers.

Organisational / managerial skills

- Leadership. Responsible for several plants where staff with different professional skills work, which I coordinate and plan in the various jobs. Altogether I coordinate twenty people.
- Technical skills. I have developed specific technical knowledge in the field of cogeneration from renewable resources, in the field of purification and in experimental applications in the development of prototypes up to obtaining patents.

- Job-related skills
- Good predisposition for team work to achieve the goals indicated by the steering group. Acquired many years of experience in managing the personnel in charge of managing the complex disposal and recovery plants, in order to achieve the objectives indicated, within the set budget limits. Currently operational manager of management and cogeneration services.
  - Deep knowledge of biogas collection systems and their operation, with the application of regulation methods and evaluation of uptake efficiency. Preparation of plant optimization plans based on site production evaluations.
  - Excellent knowledge of Jenbacher cogeneration engines for the production of electricity from biogas, with acquisition in April 2011 of PW level 15 on JBS 420 engines and update of the XT4 PX 15 operating system in 2017.
- Computer skills
- Good knowledge: Word, Excel
  - Good knowledge: Autocad 2D, 3D and Autocad Map.
  - Good knowledge of the Autodesk INVENTOR program, with specific insights into the use of the program for the design of pipes and plant parts related to biogas collection and plant engineering in general.
  - Good knowledge of the Project program for the planning of management activities (Gant works program).
- Other skills
- Excellent knowledge of field instrumentation for biogas sampling with portable instrumentation (Biogas 5000) and geo-referenced instrumentation for surface emissions (FID).
  - Excellent knowledge of thermal imaging camera TESTO and knowledge of applied methodologies for large scale thermographic investigations for waste storage plants by means of drones with thermal imaging camera.
- Driving licence
- A – B. Enabling of works by means of Italian law.

#### ADDITIONAL INFORMATION

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- Patents
- Patent Holder WIPO/PCT WO 2017/081671 A1

Date: Cesena, 28/02/2020