

1. Proposed Position:

2. Name of Firm: Emilio Lucchese

3. Name of Staff: Ingegneri Riuniti Spa

4. Date of Birth: 13th September 1962 **Nationality:** Italian

5. Education:

Degree in Mechanical engineering obtained at the University of Bologna in 1988 with vote 94/100, discussing the thesis entitled "Separation of paper from plastic in the urban solid refuse".

Scientific maturity obtained at the scientific high school Wiligermo of Modena in the scholastic year 1981/1982.

6. Membership of Professional Associations:

Partner and Project Manager of Ingegneri Riuniti Spa.

Registered at the Order of Engineers of Modena's province since 22nd January 1990 at n° 1359.

Admitted to the Engineer profession as a result of the State exam performed in the scholastic year 1988/1989 obtained by the University of studies of Bologna.

Qualification as safety coordinator for building design and construction in compliance with D.Lgs 494/96.

7. Other Training:

From 1st 22nd March 2016: Certificate of attendance at training course entitled "Technical norms of prevention fire, D.M. 3rd August 2015 – First Edition". CFP - Professional formative credits n° 16. The course was organized by the Order of Engineers of Modena's province.

30th June 2015: Certificate of attendance at the course entitled "TES01 Lead an energetic industrial audit" organized by The Energy School of Brescia.

10th June 2015: Certificate of attendance at the course entitled "Energy Manager Expert in Energy Management Uni Cei 11339:2009" organized by The ACS high formation school in Loreto Ancona (40 hours).

2nd February to 9th march 2015: Certificate of attendance at the training course entitled "Intelligent materials of the building: cool roofs & cool pavements" organized by Main cool roofs & cool pavements in Modena at the seat of the Agency for the energy and sustainable development (18 hours). Certificate of qualification MAIN expert.

2nd December 2014: Certificate of attendance at the course of updating in matter of Fire Prevention entitled "The new norms UNI 9494 Part 1 and UNI 9494 Part 2. Design and installation of evacuation systems of smoke and heat (SEFC)". CFP - Professional formative credits n° 8. The course was organized by the order of Engineers of Modena's province. Licensed by the Regional Direction of fire department Emilia Romagna, protocol N° 0013192 del 18th August 2014.

From 4th July to 25 July 2014: Certificate of attendance at the course of updating in matter of Fire Prevention finalized to the keeping of the entry in the buildings of the Interior Ministry of professionals, of which article 7 of D.M. 05/08/2011 (16 hours). The course was organized by the Order of Engineers of Modena's province.

From 22nd April to 3rd October 2013: Certificate of attendance at the English languages course organized by Inlingua Modena. Initial level 2.20 – B1.2, Reached level 2.25 – B1.2.

From 13th June to 4th July 2013: Certificate of attendance at the updating course entitled "Fire Prevention at the senses of article 7 of the legislative decree 5th August 2011" (16 hours).

2012: Certificate of attendance at the meeting entitled "Energetic saving and environment respect using generator at biomass" organized by Association and college of industrial experts and graduats of Modena's province.

2013: Certificate of attendance at the course entitled "Safety Coordinator in the temporary or mobile building yards at the senses of the legislative decree 81/2008" organized by the Order of Engineers of Modena's province.

2012: Certificate of attendance at the training course entitled "Cogeneration at high efficiency" organized by SIBER Srl, Society Italian burners of Bologna.

2012: Certificate of Attendance at the training course entitled "Cogeneration at high efficiency" organized Aghape of Imola.

17th June 2010: Certificate of attendance at the training course entitled "Understand the balance sheet and the economic-financial datas" organized by Nuova Didattica s.c.a.r.l. Management School Confindustria of Modena.

25th February 2010: Certificate of attendance at the course entitled "Air-conditioning with the geothermal science: technologies and applications" organized by ISES ITALY – Italian section of International Solar Energy Society.

18th and 19th December 2008: Certificate of attendance at the photovoltaic design course organized by ISES ITALY – Italian section of International Solar Energy Society in collaboration with the Municipality of Modena.

26th March 1998: Certificate of attendance at the training course for the job safety in the building sector realized in according with article 10, subparagraph 2, of legislative decree 494/96, second the prescriptions of which at relative attaché V. Qualification as safety coordinator for building design and construction in compliance with D.Lgs 494/96.

22nd December 1994: Certificate of attendance at the specialization course of fire prevention for professionals engineers (at the senses of legislative decree of 25th March 1985) organized by the Order of Engineers of Modena's province. Registered in the list of the Internal Ministry of which at the 07/12/1984. 818 with individuation code MO 1359 I 0225.

1994: Registered in the list of the subjects qualified for the checks in matter of plants safety of which at the law n° 46/90 and e D.P.R. 06/12/1991 n° 447 article 9 approved by the municipal junta of Modena with resolution n° 451 of 14/10/1993.

Countries of Work Experience: Italy

9. Languages:

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1/B2	B1/B2	B1/B2	B1/B2	B1/B2
Replace with name of language certificate. Enter level if known.					
Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user					

10. Employment Record:

From 1990 to 2016

Employer: Ingegneri Riuniti S.p.a., 15 Guglielmo Pepe Street, 41126 Modena

Positions held: Project Manager of Plant Engineering

Main sectors of intervention during of own professional activity:

- ☒ Energy productions plants through renewable systems which photovoltaic generators, geothermic and thermic-solar besides energy alternative production systems which cogeneration, trigeneration and district heating.
- ☒ Projects of adjustment to the safety norms and to the CEI norms.
- ☒ Thermotechnic plants and civil and industrial fire protection.
- ☒ Civil and industrial plants.
- ☒ Projects, network checks for accumulation plants and capitation, lifting, transport, distribution and treatment of drinking water.
- ☒ Networks and plants of distribution and utilization of the methane gas.
- ☒ Development of International projects of research finalized by the European Community in the sector of the Energetic Certification and of the reduction of effect of Heat Isles.

11. Detailed Tasks Assigned	12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned <ul style="list-style-type: none">• Name of assignment or project: "SOLARIA FV.1" – Plant for the production of electrical energy with photovoltaic panels with power of 0,995 MWp – Location Borgo MezzanoneYear: 2007 - 2008Location: Borgo Mezzanone in Manfredonia (FG)Client: SOLARIA Società Agricola S.r.l.Main project features: Work amount USD 5.599.320,22; work amount photovoltaic USD 5.565.724,30; power installed 995 KWpPositions held: Final and executive designActivities performed: Design, safety coordination in the design stage, environment impact valuation• Name of assignment or project: "SOLARIA FV.2" – Plant
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	<p>for the production of electrical energy with photovoltaic panels with power of 0,995 MWp – Location Borgo Mezzanone</p> <p>Year: 2007 - 2008</p> <p>Location: Borgo Mezzanone in Manfredonia (FG)</p> <p>Client: SOLARIA Società Agricola S.r.l.</p> <p>Main project features: Works amount USD 5.617.885,39; work amount photovoltaic USD 5.584.178,07; power installed 995 KWp</p> <p>Positions held: Final and executive design</p> <p>Activities performed: Design, safety coordination in the design stage, environment impact valuation</p> <ul style="list-style-type: none"> • Name of assignment or project: New construction of a residential mansions in Ravarino. Section n. 1 ex Leoni area – Lot 3. Thermo-hydraulic and electrical plants: photovoltaic system of roofing <p>Year: 2008</p> <p>Location: Ravarino (MO)</p> <p>Client: Gavioli Costruzioni S.r.l.</p> <p>Main project features: Works amount USD 10.029.029,89; work amount photovoltaic USD 98.894,38; power installed 18 KWp</p> <p>Positions held: Final and executive design, safety coordination in design</p> <p>Activities performed: Design, safety coordination in the design stage</p> <ul style="list-style-type: none"> • Name of assignment or project: Realization of a new Showroom in Fiorano Modenese and transfer of existing plants. Execution of the power plants and electromechanical plants. The project is divided in 3 excerpt: <ul style="list-style-type: none"> _ Feasibility analysis _ Executive project 1° excerpt: Transfer of existing plants _ Executive project 2° excerpt: Reconstruction of a building part for the realization of a New Showroom Floorgres Ceramic of Fiorano Modenese <p>Year: 2010 - 2011</p> <p>Location: Fiorano Modenese (MO)</p> <p>Client: Florim Ceramiche S.p.a.</p> <p>Main project features: Works amount USD 4.336.105,55; Area of intervention 9.000 mq.</p>
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	<p>Positions held: Feasibility, Preliminary and executive design, direction works, safety coordination in the design stage, opinion of the fire department, design coordination</p> <p>Activities performed: Plant works designer, director works, fire department practice, design coordination</p> <ul style="list-style-type: none"> Name of assignment or project: Construction of the new office headquarters of Cooperativa Costruzioni of Modena – Technological plants <p>Year: 2005 - 2006</p> <p>Location: Modena</p> <p>Client: Cooperativa di Costruzioni di Modena</p> <p>Main project features: Works amount USD 1.500.314,42;</p> <p>Positions held: Feasibility analysis, Preliminary and executive design, adjustment to the fire prevention norms, fire prevention certificate, opinion of conformity to the local health</p> <p>Activities performed: Plant works designer, adjustment to the fire prevention norms, fire prevention certificate, opinion of conformity to the local health</p> <ul style="list-style-type: none"> Name of assignment or project: Upgrade to the springs, pipelines and systems in the waterworks schemes of the mountainous area operation lot n. 8 improvements to the waterworks scheme in the Passo del Lupo area and the water reservoir interventions for the Municipality of Sestola and Montecreto. ATO172. <p>Year: 2006 - 2009</p> <p>Location: Province of Modena, mountain area</p> <p>Client: Hera S.p.a.</p> <p>Main project features: Works amount USD 1.298.980,89;</p> <p>Positions held: Preliminary, final and executive design, direction works, safety coordination in the design and execution stage, design coordination, environment impact valuation, seismic adjustments of structures, test</p> <p>Activities performed: Architectural works designer, electric and hydraulic plants, director works, safety coordinator in the design and execution stage, environment impact valuation</p> <ul style="list-style-type: none"> Name of assignment or project: Detailed plan for the recovery of an old derelict industrial area in the historical centre of Castelfranco Emilia “Ex. Bini Sector” intended for residences, offices and shops
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	<p>Year: 1991 - 2007</p> <p>Location: Castelfranco Emilia (MO)</p> <p>Client: Hera S.p.a.</p> <p>Main project features: Works amount USD 22.206.261,15;</p> <p>Positions held: Preliminary, final and executive design, direction works, safety coordination in the design and execution stage, design coordination, adjustment to the fire prevention norms, fire prevention certificate, opinion to the Supeintendence</p> <p>Activities performed: Plant works designer, adjustment to the fire prevention norms, fire prevention certificate</p> <ul style="list-style-type: none"> Name of assignment or project: New construction residential mansions in Ravarino. Sector n. 1 Ex Leoni area – Lot 3 <p>Year: 2008 - ongoing</p> <p>Location: Ravarino (MO)</p> <p>Client: Gavioli Costruzioni S.r.l.</p> <p>Main project features: Works amount USD 10.029.029,89;</p> <p>Positions held: Preliminary, final and executive design, direction works, safety coordination in the design and execution stage, adjustment to the fire prevention norms, fire prevention certificate, opinion to the local health, seismic adjustments of structures, test</p> <p>Activities performed: Plant works designer, adjustment to the fire prevention norms, fire prevention certificate, opinion of conformity to the local health</p> <ul style="list-style-type: none"> Name of assignment or project: Urban retraining of the scholastic green area of the Morello park with building renovation of the ex nursery school of the chief town earmarked to new cultural centre <p>Year: 2016</p> <p>Location: Calderara di Reno (BO)</p> <p>Client: Municipality of Calderara di Reno (BO)</p> <p>Main project features: Works amount USD 1.471.960,39;</p> <p>Positions held: Final and executive design, safety coordination in the design stage</p> <p>Activities performed: Fire prevention practices</p> <ul style="list-style-type: none"> Name of assignment or project: Renovation and
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	<p>expansion of the existing sheds (Building A - C) – Demolition and renovation of shed and building (Building B) – at the site of S. Cesario sul Panaro (MO) and organization of external areas</p> <p>Year: 2016</p> <p>Location: S. Cesario sul Panaro (MO)</p> <p>Client: Oil & Steel S.p.a.</p> <p>Main project features: Works amount USD 2.660.674,15;</p> <p>Positions held: Executive design, direction works, safety coordination in the design and execution stage, design coordination, adjustment to the fire prevention norms, fire prevention certificate, opinion of conformity to the local health, seismic adjustments of structures, test</p> <p>Activities performed: Plant works designer, adjustment to the fire prevention norms, fire prevention certificate, opinion of conformity to the local health</p> <ul style="list-style-type: none"> • Name of assignment or project: Reconstruction of n.3 industrial sheds (A-B-C) in follow of the seismic events of the 20th and 29th May 2012, sited in Municipality of Mirandola (MO), San Giacono Roncole hamlet, in Via di Mezzo 17 <p>Year: 2013 - 2015</p> <p>Location: San Giacomo Roncole hamlet – Mirandola (MO)</p> <p>Client: Immobiliare Bazzi and Neri S.r.l. and Bazzi & S.n.c.</p> <p>Main project features: Works amount USD 3.510.204,84;</p> <p>Positions held: Preliminary, final and executive design, direction works, safety coordination in the design and execution stage, design coordination, adjustment to the fire prevention norms, fire prevention certificate, opinion of conformity to the local health, seismic adjustments of structures, test</p> <p>Activities performed: Designer, operative direction electric plant works</p> <ul style="list-style-type: none"> • Name of assignment or project: Partial demolition and renovation with extension of the body 19 – Low Bay in follow of the seismic events of the 20th and 29th May 2012 <p>Year: 2013 - 2014</p> <p>Location: Province of Modena</p> <p>Client: Gambro Dasco S.p.a.</p> <p>Main project features: Works amount USD 5.864.879,77;</p> <p>Positions held: Final design (for SUAP authorization) and</p>
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	<p>executive design, safety coordination in the design and execution stage, fire department practices and CPI, opinion of conformity to the local health, direction works and accounting</p> <p>Activities performed: Designer and operative direction electric plants</p> <ul style="list-style-type: none"> Name of assignment or project: Redevelopment works of the former Sant'Agostino Hospital complex in Modena <p>Year: 2011 - 2012</p> <p>Location: Modena</p> <p>Client: Fondazione Cassa di Risparmio of Modena</p> <p>Main project features: Works amount USD 33.007.090,51;</p> <p>Positions held: Preliminary and final design, design coordination, adjustment to the fire prevention norms, opinion of conformity to the local health, seismic adjustment</p> <p>Activities performed: Mechanical, hydro-sanitary, electric and special plants designer</p> <ul style="list-style-type: none"> Name of assignment or project: Task of preliminary and final design related to extraordinary maintenance work to all areas on the 1st floor of Pneumology building <p>Year: 2008</p> <p>Location: Modena</p> <p>Client: University Teaching Hospital of Modena – Building and systems management</p> <p>Main project features: Works amount USD 1.379.056,88;</p> <p>Positions held: Preliminary, final and executive design, design coordination, adjustment to the fire prevention norms, opinion of conformity to the local health</p> <p>Activities performed: Plant works designer</p> <ul style="list-style-type: none"> Name of assignment or project: Integrated contract related to the works of extraordinary maintenance for the renovation of stays assigned to surgery and transplants department in follow at the consolidation and aseismatic improvement interventions floor 2° Body C (Prog. RI/061/2012) of the Hospital Firm – University of Modena <p>Year: 2013</p> <p>Location: Modena</p> <p>Client: Impresa Righi S.r.l., Eng. Ferrari S.p.a. and Nuova</p>
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	<p>Alberti & Tagliazzucchi S.r.l.</p> <p>Main project features: Works amount USD 1.885.793,16; Positions held: Final design, design coordination, adjustment to the fire prevention norms, opinion of conformity to the local health</p> <p>Activities performed: Plant works designer</p> <ul style="list-style-type: none"> Name of assignment or project: Construction of the New Headquarter Offices of the Cooperativa Costruzioni di Modena – Technological Systems <p>Year: 2005 - 2006</p> <p>Location: Modena</p> <p>Client: Cooperativa di Costruzioni</p> <p>Main project features: Works amount USD 1.500.314,42; Positions held: Preliminary, final and executive design, adjustment to the fire prevention norms, fire prevention certificate, opinion of conformity to the local health</p> <p>Activities performed: Plant works designer, adjustment to the fire prevention norms, fire prevention certificate, opinion of conformity to the local health</p>
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13. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

_____ Date: _____

[Signature of staff member or authorized representative of the staff]

Day/Month/Year

Full name of authorized representative: _____