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## **PROFESSIONAL CURRICULUM**

Rec: [www.ceraingegneria.it](http://www.ceraingegneria.it)

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## Curriculum Vitae (CV)

<b>Position Title and No.</b>	<b>CIVIL TRANSPORT ENGINEER</b>
<b>Name of Expert:</b>	<b>LUCIANO CERA</b>
<b>Date of Birth:</b>	28/09/1958
<b>Country of Citizenship/Residence</b>	ITALY, Viale dello Splendore 12/a Giulianova, Abruzzo (TE) <a href="http://www.ceraingegneria">www.ceraingegneria</a>

### Education:

- University:**
- University of Rome “La Sapienza” – Italy, Faculty of Civil Engineering – Department of Transportation (years 1978 – 1983)  
“Laurea” (Doctor’s Degree) in Civil Engineering and Specialization in Transportation Engineering (1983).  
*Note: the Italian “Laurea” has a value much higher than a Master's Degree*

- High school:**
- Technical Institute of Survey, Cassino (FR)– Italy (years 1973 – 1978) “Diploma di Geometra” - (1978) (technical studies)
  - “Enrico Fermi” Cassino (FR) Italy)

### Italian State Qualification:

- Italian State qualifying examination (necessary to practice as chartered engineer) : July 1984.

### Membership in Professional Associations and Publications:

- Register of Engineers of Teramo Province – Italy. (n° 1127, since 1985)
- A.I.I.T. – Italian Association of Traffic Engineers
- Registered on the special list of reliable engineer of General Direction for Cooperation to the development of Ministry of the Foreign Business

### Language Skills:

LANGUAGE	SPEAKING	READING	WRITING
ITALIAN	MOTHER		
ENGLISH	FAIR (3)	FAIR (3)	FAIR (2)

**Note:** competence on a scale of 1 to 5 (1 – basic; 5 – excellent)

## Key Qualifications:

Luciano CERA is the principal consultant, traffic/road engineer and director of Studio Cera; he has 31 years post graduate experience in transportation and road engineering and civil construction design.

As founder of Cera Ingegneria s.a.s. he is owner of some patents in the field of Mobile Mapping System (MMS) and he has also developed methodologies for the optimization of maintenance design and safety audit analysis by using specific software GIS (Geographic Information System).

Luciano has been involved with several road projects, developing experience and competence in both private and public development programs and investments. Indeed, he was in charge of the geometric requalification of the main roads in Riyadh (Saudi Arabia, 1983-1986).

Since 1987 he is owner of the namesake Engineer Company (Studio CERA), which operates mainly in two fields: Road and Transportation Engineering (pavement design, geometric design, geotechnical design, drainage design and so on...)

He has been also in charge of several Urban Traffic Plans (PGTU) and other strategic plans, such as parking plan and so on..., included in a city plan for what concern Traffic optimization.

The integral part of the process of planning, is the Road Safety, (1998 -2003), theme of great actuality which has been detailed to systematizing the principle, enunciated from the same National Plan of the Road Safety, "that it is not possible to plan putting aside the guarantee of safety"

Particularly, at the end of interesting researches performed in University field, has been developed a methodology that allows to individualize the risk of structural factors of the infrastructure to plan the interventions of maintenance

During the years he has acquired specific competences in environmental field, in the study of the issues of pollutants produced by the vehicular traffic, with particular attention to the pollution of the surrounding environment of the running waters on the road surfaces developing (in collaboration with the prof. Di Mascio, University of Roma).

## Networking

Studio CERA is part of a network of engineering firms that includes :

- The study associated 2C comes to life, along with his most capable staff, specialize in the field of civil engineering to pursue with greater competence and professionalism in the design of new buildings and the consolidation of existing ones, thanks to the long experience gained over the years in the design of buildings damaged by the earthquake (1985 in Abruzzo Alto Sangro and 2009, the city of L'Aquila)

- ERA Ltd., is a group company that operates in the renewable energy sector aimed at saving energy. It is proposed to engage in consultations with high technical content, including by the study of public-private finance initiatives (eg. Project financing)

## What's on

The philosophy of our firm is customer satisfaction, (public and private), so, in addition to the integrated design, we are capable to carry out feasibility studies and technical and economic evaluations by providing a multi-disciplinary knowledge based on experience over 400 projects, studies and applied research, shared with other renowned engineers and professors in the fields of infrastructures and Architecture.

The skills, the creativity of the concreteness of the proposed solutions, the continuous search for innovations is the added value that the group give to its customers.

## Employment record relevant

Period	1985-today
Country	Teramo, Italy
Employing Org.	STUDIO CERA – (Engineering Consulting Company)
Title/Position	Executive and Technical Director, Founding Member.
Summary of activities relevant to the Assignment	Owner of the firm, responsible for all activities performed. Project Management and leadership of Design and Construction Supervision teams. Special consultancies for claims and problem solving in the engineering and construction sectors.
Assignments Location	Italy, various Regions.
Contact Information	Ing. Luciano CERA Zona Industriale Colleranesco 64021 Giulianova, (Italy) . Tel. (39)- 085.8008250 mail cera@ceraingegneria.it

Period	2002 – 2009
Country	Teramo, Italy
Employing Org.	Cera Ingegneria sas– (Engineering Consulting Company)
Title/Position	Founding Member, Technical Director
Summary of activities relevant to the Assignment	As founder of CERA Ingegneria s.a.s. Luciano CERA put into effect the several researches carried out during his professional and academic carrier in the fields of maintenance and road design . With the development of G.I.O.T.T.O. (Gps with Imu, Odometer and Telecamera for Transport Optimization) Luciano has achieved the purpose that was at the base of the firm’s foundation: developing a high-efficiency vehicle for the geometric survey and maintenance optimization. G.I.O.T.T.O. has been used for several projects in different fields: feasibility studies, maintenance and safety audit projects.
Assignments Location	Giulianova (TE) Italy
Contact Information	Ing. Luciano CERA Zona Industriale Colleranesco 64021 Giulianova, (Italy) . Tel. (39)- 085.8008250 mail cera@ceraingegneria.it

Period	1983 – 1985
Country	Rome (Italy)
Employing Org.	TECNIC S.R.L. – (Engineering Consulting Company)
Title/Position	Employee.
Summary of activities relevant to the Assignment	Design Engineer for the Geometric requalification of the main roads in Riyadh, specially for what concern the traffic lights rephasing.
Assignments Location	Riyadh - Saudi Arabia, Rome - Italy
Contact Information	TECNIC spa, Prof. Ing. Sascia Canale, Via Panama 00196, Rome – Italy Tel: (39)-06 8535 5088

Period	1986-1998
Country	Castel di Sangro, (AQ) Italy.
Employing Org.	CO.ED.B (Edil Costruction Buccigrossi)
Title/Position	Founding Member, Technical Director.
Summary of activities relevant to the Assignment	Construction manager for road infrastructures
Assignments Location	Italy, Abruzzo Region.
Contact Information	COEDB, Via Porta Napoli 67100 Castel di Sangro (AQ) – Italy. Tel. (39)-0864841294, Mr. Mario Buccigrossi – President.

## Adequacy for the Assignment:

Assignment Name	<b>“OBIETTIVO SICUREZZA” ROAD NETWORK SAFETY STUDY</b>		
Amount of Works	€ 2,71 Million		
Country	Italy - Teramo		
Client	Teramo Province		
Employing Org.	Free Lance Professional		
Title/Position	PROJECT DIRECTOR, ROAD ENGINEER , TECHNICAL CONSULTANT		
Description	The assignment is composed by an initial phase which includes the coordination of different activities (car crash data collection, traffic analysis, pavement condition analysis, etc...) and a design phase in which preliminary and final road designs, based on the findings of the previous analysis, have been carried out		
Start Date (m/y)	<b>04/2006</b>	Completion Date (m/y)	<b>2014 (underway)</b>

Assignment Name	<b>“SICURI SULLE STRADE SICURI IN CITTÀ” ROAD NETWORK SAFETY STUDY</b>		
Amount of Works	€ 3,5 Million		
Country	Municipalities of L’Aquila, Teramo and Chieti		
Client	Municipality of L’Aquila,		
Employing Org.	Free Lance Professional		
Title/Position	PROJECT DIRECTOR, ROAD ENGINEER , TECHNICAL CONSULTANT		
Description	The assignment is composed by an initial phase which includes the coordination of different activities (car crash data collection, traffic analysis, pavement condition analysis, etc...) and a design phase in which preliminary and final road designs, based on the findings of the previous analysis, have been carried out		
Start Date (m/y)	<b>04/2006</b>	Completion Date (m/y)	<b>2014 (underway)</b>

Assignment Name	<b>PROJECT OF SOUTHERN INTERSECTION IN SULMONA MUNICIPALITY (AQ) – ROUNDABOUT</b> <i>(Preliminary and Final Design, planning supervisor)</i>		
Amount of Works	€ 0,35 Million		
Country	Italy – Sulmona (AQ)		
Client	Municipality of Sulmona (AQ)		
Employing Org.	Free Lance Professional		
Title/Position	ROAD ENGINEER		
Description	Full responsibility of all the design activities. Coordination and supervision of the design team. Detailed review of all the project documents during their preparation and before the transmission to the client.		
Start Date (m/y)	<b>02/2008</b>	Completion Date (m/y)	<b>(underway)</b>

Assignment Name	<b>FUNCTIONAL DESIGN FAIR OF SP 23</b> <i>(Preliminary and Final Design, planning supervisor)</i>		
Amount of Works	€ 0,5 Million		
Country	Italy		
Client	Progetto auto srl		
Employing Org.	Free Lance Professional		
Title/Position	ROAD ENGINEER		
Description	Full responsibility of all the design activities. Coordination and supervision of the design team. Detailed review of all the project documents during their preparation and before the transmission to the client.		
Start Date (m/y)	<b>02/2008</b>	Completion Date (m/y)	<b>(underway)</b>

Assignment Name	<b>“CASE &amp; MAP, Ex Optimes, Via Vetoio</b> (Preliminary Design)		
Amount of Works	€ 2,2 Million		
Country	Italy		
Client	Municipality of L’Aquila (AQ)		
Employing Org.	Free Lance Professional		
Title/Position	ROAD ENGINEER		
Description	Full responsibility of all the design activities. Coordination and supervision of the design team. Detailed review of all the project documents during their preparation and before the transmission to the client.		
Start Date (m/y)	<b>05/2010</b>	Completion Date (m/y)	<b>(underway)</b>

Assignment Name	<b>NEW PAVEMENT DESIGN OF SS RA11 IN ASCOLI PICENO</b> (Maintenance Design)		
Amount of Works	€ 3,7 Million		
Country	Italy		
Client	Adriatica Bitumi spa		
Employing Org.	Free Lance Professional		
Title/Position	HIGHWAY ENGINEER		
Description	Maintenance design of the RA_11 (26,3 km) by using a MMS (mobile Mapping System) vehicle for the analysis of the pavemen.		
Start Date (m/y)	<b>10/2012</b>	Completion Date (m/y)	<b>09/2013</b>

Assignment Name	<b>ROAD NETWORK SAFETY STUDY</b>		
Amount of Works	€ 2,7 Million		
Country	Italy .		
Client	Municipality of Giulianova (TE), as rappresentative Municipality of Pineto, Roseto degli Abruzzi, Tortore, Alba Adriatica, Martinsicuro		
Employing Org.	Free Lance Professional		
Title/Position	PROJECT DIRECTOR, ROAD ENGINEER , TECHNICAL CONSULTANT		
Description	The assignment is composed by an initial safety audit which includes the coordination of different activities (car crash data collection, traffic analysis, pavement condition analysis, etc...) and a design phase in which preliminary and final road designs, based on the findings of the previous analysis, have been carried out		
Start Date (m/y)	<b>2005</b>	Completion Date (m/y)	<b>05/2012</b>

Assignment Name	<b>SICURITY PROJECT ROAD APPLICATIONS</b>		
Amount of Works	€ 0,9 Million		
Country	Italy		
Client	Municipalities of : Giulianova, Atri, Tortoreto (TE)		
Employing Org.	Free Lance Professional		
Title/Position	ROAD ENGINEER		
Description	Full responsibility of design activities and construction supervision		
Start Date (m/y)	<b>11/2005</b>	Completion Date (m/y)	<b>12/2009</b>

Assignment Name	<b>URBAN TRAFFIC PLANS (PGTU)</b>		
Amount of Works	Not Applicable		

Country	Italy		
Client	Municipalities of Montevarchi (AR), Maratea (CS), Scalea /CS), Teramo (TE), Giulianova (TE),		
Employing Org.			
Title/Position	TRANSPORTATION ENGINEER		
Description	Responsible for the development of Urban traffic Plans for the cities of Montevarchi (AR), Maratea (CS), Scalea /CS), Teramo (TE), Giulianova (TE).		
Start Date (m/y)	<b>06/2004</b>	Completion Date (m/y)	<b>11/2008</b>

Assignment Name	<b>URBAN TRAFFIC PLANS (PGTU)</b>		
Amount of Works	Not Applicable		
Country	Italy		
Client	ACI Consult spa Roma		
Employing Org.	Free Lance Professional		
Title/Position	CONSULTANT		
Description	Responsible for the development of Urban traffic Plans for the cities of Campobasso, Fano, Imperia, Rieti, San Dona' del Piave (VE).		
Start Date (m/y)	<b>12/1996</b>	Completion Date (m/y)	<b>06/2006</b>

Assignment Name	<b>"SAFETY AUDIT" PILOT STUDY</b>		
Amount of Works	€ 0.9 Million		
Country	Teramo -Italy		
Client	Teramo Province		
Employing Org.	Free Lance Professional		
Title/Position	CONSULTANT		
Description	Full responsibility and coordinator of a Road Safety Audit in Teramo Province. The Study has been carried out in 6 phases: 1- Organization of training courses for public employees in roads sector; 2- Development of a relational data base for traffic flows, car crashes and road cadastre; 3- Development of ASPES procedure; 4- Safety Audit – Detection of "black points"; 5- Establishment of a Road Safety Department; 6- Development of signs' maintenance program		
Start Date (m/y)	<b>2002</b>	Completion Date (m/y)	<b>04/2005</b>

Assignment Name	<b>STRAIT OF MESSINA BRIDGE</b>		
Amount of Works	Not defined (feasibility study)		
Country	Italy		
Client	Prof. Eng. L. Domenichini		
Employing Org.	Free Lance Professional		
Title/Position	CONSULTANT		
Description	Consultancy on the development of Strait of Messina Bridge's technical specifications		
Start Date (m/y)	<b>2002</b>	Completion Date (m/y)	<b>2004</b>

Assignment Name	<b>FEASIBILITY STUDY FOR IMPROVEMENT OF ROAD INFRASTRUCTURES IN ABRUZZO INDUSTRIAL DISTRICT</b>		
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Amount of Works	Not Applicable		
Country	Italy		
Client	Systra – Sotecni spa		
Employing Org.	Free Lance Professional		
Title/Position	CONSULTANT		
Description	Consultant for the feasibility study on the optimization of road infrastructures investments in Abruzzo Region. The assignment has been carried out in three phases. In the first-one the programmatic plans have been analyzed and in the second-one the transport request and offer have been investigated in order to define different scenarios (3 <sup>rd</sup> phase) for improving traffic conditions on regional network (roads, railways, harbors and airports).		
Start Date (m/y)	<b>09/2001</b>	Completion Date (m/y)	<b>09/2003</b>

Assignment Name	<b>EXPERIMENTAL PROJECT FOR THE SAFETY IMPROVING IN SAN BERARDO DISTRICT</b> <i>Preliminary Design</i> )		
Amount of Works	€ 1,25 million		
Country	Teramo - Italy		
Client	Municipality of Teramo		
Employing Org.	Free Lance Professional		
Title/Position	Technical Consultant of Municipality of teramo		
Description	Coordinator of the experimental pilot study for the road safety improvement in San Berardo (Municipality of Teramo)		
Start Date (m/y)	<b>03/2001</b>	Completion Date (m/y)	<b>2002</b>

Assignment Name	<b>INVESTIGATION OF A METHODOLOGY FOR THE DEFINITION OF MEASURES FOR S.S. 17'S SAFETY IMPROVING</b> <i>(Technical Consultancies)</i>		
Amount of Works	Not defined (feasibility study)		
Country	Italy – Abruzzo region		
Client	Abruzzo Region		
Employing Org.	Free Lance Professional		
Title/Position	TECHNICAL CONSULTANT		
Description	Responsible of the Safety audit on S.S. 17 dell'Appennino Abruzzese and definition of measures for safety improving.		
Start Date (m/y)	<b>1998</b>	Completion Date (m/y)	<b>03/2001</b>

Assignment Name	<b>INVESTIGATION OF A METHODOLOGY FOR THE REALIZATION OF A ROAD NETWORK TERRITORIAL DATA BASE (ROAD CADASTRE) FINALIZED TO THE ROAD MANAGEMENT</b>		
Amount of Claims	Not defined (feasibility study)		
Country	Italy – Abruzzo region		
Client	Abruzzo Region		
Employing Org.	Free Lance Professional		
Title/Position	TECHNICAL CONSULTANT		
Description	Responsible for the feasibility study on the realization of the Road Cadastre (C.S.) and Road Information System (S.I.S.) and for the data suitability with the National Road Archive (A.N.S.) standards		
Start Date (m/y)	<b>04/1998</b>	Completion Date (m/y)	<b>12/1999</b>

Assignment Name	<b>DESIGN OF "VIA TIBURTINA – VALERIA", FROM POPOLI TO SS 5 DIR (ROCCASALE),</b> <i>(Preliminary Design)</i> )		
Amount of Works	€ 5,7 Million		
Country	Italy		

Client	ANAS spa		
Employing Org.	Free Lance Professional		
Title/Position	ROAD ENGINEER		
Description	Full Responsibility of the preliminary design		
Start Date (m/y)	<b>08/1999</b>	Completion Date (m/y)	<b>12/1999</b>

Assignment Name	<b>GV3 VERIFICATION GROUP FOR ROAD INFRASTRUCTURES</b>		
Amount of Works	Not Applicable		
Country	Italy -		
Client	Prof. Eng. L. Domenichini		
Employing Org.	Free Lance Professional		
Title/Position	SENIOR ENGINEER,		
Description	Supervisor of the GV3 verification group for road infrastructures annexed to the Railway Milano-Bologna between km 0+230 and km 63+000. Responsible for the Road component of the project.		
Start Date (m/y)	<b>1998</b>	Completion Date (m/y)	<b>1998</b>

Assignment Name	<b>FEASIBILITY STUDY FOR THE REALIZATION OF AN AVIOSURFACE</b>		
Amount of Works	Not Applicable		
Country	Italy		
Client	L'Aquila Province		
Employing Org.	Free Lance Professional		
Title/Position	CONSULTANT		
Description	Consultancy on the Technical and Economical Feasibility study of an aviosurface in L'Aquila. Consultancy on the geometric preliminary design		
Start Date (m/y)	<b>1998</b>	Completion Date (m/y)	<b>1998</b>

Assignment Name	<b>DEFINITION OF POSSIBLE PATHS FOR THE NEW LIVORNO – CIVITAVECCHIA HIGHWAY</b>		
Amount of Works	Not Applicable		
Country	Italy		
Client	Prof. Eng. L. Domenichini		
Employing Org.	Free Lance Professional		
Title/Position	CONSULTANT		
Description	Consultancy on the investigation of possible low-impact paths for the Livorno – Civitavecchia Highway. Preliminary geometric design		
Start Date (m/y)	<b>1989</b>	Completion Date (m/y)	<b>1989</b>

Assignment Name	<b>IMPROVEMENT AND BEAUTIFICATION OF URBAN STREETS IN RIYADH FOURTH STAGE PART FIVE"(Riyadh Arabia Saudita</b>		
Amount of Works	Not Applicable		
Country	Saudi Arabia - Riyadh		
Client	Municipality of Riyadh		
Employing Org.	T.e.c.n.i.c. S.p.a.		
Title/Position	HIGHWAY ENGINEER		
Description	Full responsibility of design activities and coordination and supervision of the design team. Highway design of the main roads in Riyadh (Saudi Arabia), listed below: <b>- Al Farazdak Street</b> (Length 2.965 m.; width 30 m.);		

	<ul style="list-style-type: none"> <li>- <b>Prince Salman Street</b> (Length 1.518 m.; width 40 m.);</li> <li>- <b>Al Ma'rad Street</b> (Length a 4.956 m.; width 60 m.);</li> <li>- <b>Electric Tower Street</b> Length 4.200 m.; width 80 m.);</li> <li>- <b>Al Nahdah Street</b> (Length 3.725 m.; width 100 m.);</li> <li>- <b>Incas Road</b> (Length 9.800 m.; width 60 m.);</li> </ul>		
Start Date (m/y)	<b>1984</b>	Completion Date (m/y)	<b>1986</b>

**Expert's contact information:** (mail: [cera@ceraingegneria.it](mailto:cera@ceraingegneria.it) Phone: (+39.0858008250)

Certification:

I, the undersigned, certify that to the best of my knowledge and belief this CV correctly describes myself, my qualifications, and my experience, and I am available to undertake the assignment in case of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the Client, and/or sanctions by the Bank.

**LUCIANO CERA**

**01/06/2014**

Name of expert

Signature

Date



[day/month/year]

Name of authorized

Signature

Date

Representative of Consultant  
(the same who signs the  
Proposal)