

# CURRICULUM VITAE

Maddalena RICCIARELLI



First name LAST NAME: MADDALENA RICCIARELLI

Nationality: ITALIAN

Current position: PROJECT MANAGER

Date of birth: 01/02/1990

Years of experience: 5

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## EDUCATION

Years: 2015-2017

School/University: UNIVERSITÀ DEGLI STUDI DI PERUGIA

Certificate/diploma: MASTER'S DEGREE

Programme (e.g., major/minor): MS in STRUCTURAL CIVIL ENGINEERING

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## FURTHER TRAINING

Years: 2016-2017

Organisation: UNIVERSITÀ DEGLI STUDI DI PERUGIA and COLUMBIA UNIVERSITY of NEW YORK CITY

Programme: VISITING SCHOLAR at the Department of Civil Engineering and Engineering Mechanics in Columbia University, in New York City, USA. The project aimed to writing the master's thesis in "SMART PAVEMENTS FOR WEIGH IN MOTION OF VEHICLES FOR SHM OF BRIDGES: FABRICATION OF NANOCOMPOSITE BITUMEN". This proposal allowed to publish a paper in collaboration with Professor Filippo Ubertini (Università degli Studi di Perugia) and Professor Huiming Yin (Columbia University, Mudd Building)

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## PROFESSIONAL MEMBERSHIPS

Registered as Professional Engineer in the Association of Engineers of the Province of Perugia in February 2018: Section A, Civil and Environmental Engineering Sector

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## SOFTWARE

Excel, MS Project, PowerPoint, AUTOCAD, Straus7, Plaxis2D, RCS, PNI, QGIS

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**KEY  
CAPABILITIES**

**Years of professional experience:**

5 total years of experience (*after diploma obtained*)  
1 year in the telecommunication field  
1 year in the current position  
3 years of international experience

Services:

Assistance to the Owner, FEM engineering, Project management, Planning process, Business and budget planning

Technical expertise:

Structural Civil engineering, Tunnel interconnections, Project management, Budget planning, Cost control, layout.

Presentation:

*I have experience in calculation of FEM for major engineering structures, from concept studies to the control of execution studies, in France (Paris) and internationally. I worked on numerous innovative projects (e.g., subway line projects for the Grand Paris Express).*

*I have developed significant expertise in project management, e.g., project planning (forecasting), cost control and problem-solving skills.*

*I feel well-oriented, willing to learn and I can easily get familiarize with new things being introduce me.*

*I was selected by the AFTES (Association Française des Tunnels et de l'Espace Souterrain) for the writing of the paper "Design of a 3D model for the dimensioning of the tunnel-bypass interconnections, Grand Paris Line 14 Lot 4".*

*I am a co-author of the manuscript "Mixing carbon nanotubes with asphalt binder through a foaming process toward high-performance warm mix asphalt (WMA), published in the International Journal of Pavement Engineering.*

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**LANGUAGES**

	READ	SPOKEN	WRITTEN
Italian (Mother tongue)	5	5	5
English	4	3	4
French	4	4	4
Spanish	1	1	1

*5-1 in decreasing order of proficiency*

*5-First language 4-Excellent 3-Advanced 2-Intermediate 1-Beginner*

## PROFESSIONAL EXPERIENCE

<p>08/2017 – 09/2018</p>	<p><b>EAGLE PROJECTS S.p.A.</b> Via M. Angelucci 4, Perugia, 06129 (Italy)</p> <p><b>TLC Network Design/Project Management</b> <b>FTTH PM Engineer</b></p> <p><u>Detailed description:</u></p> <ul style="list-style-type: none"> <li>▪ <i>Development of FTTH/B/C and mobile networks, development of fiber optic infrastructures on behalf of field operators, design support services for all phases (Feasibility Studies, Preliminary Design, Final Design, Detailed Design, As Built) including site visits (Walk-out).</i></li> </ul> <p><i>Software: PNI (Physical Network Inventory), QGIS, AutoCAD</i></p> <ul style="list-style-type: none"> <li>▪ <i>Support for Project planning and Construction management for the planning and construction of the laying of infrastructures within extended urban areas.</i></li> <li>▪ <i>Monitoring of the project activities and coordination of the professional figures involved in the realization of the work (quality check of design works)</i></li> </ul> <p><u>Services:</u> <i>Engineering design and management of technical activities related to TLC, infrastructure, construction projects.</i></p> <p><u>Technical expertise:</u> <i>Design, Project management, telecommunications</i></p>
<p>10/2018 – 08/2021</p>	<p><b>SYSTRA SWS FRANCE</b> 34 rue de l'Abbé Groult, Paris 75015 (France)</p> <p><b>Bridge &amp; Structures Department</b> <b>Structural Engineer/Project Engineering Manager</b></p> <p><u>Detailed description:</u></p> <ul style="list-style-type: none"> <li>▪ <i>Structures: Finite Elements Method (FEM) analysis of tunnel interconnections (bypass, excavated by traditional methods and by shielded or open-type TBMs (Tunnel Boring Machines), Shaft project from excavation with conventional bottom-up construction or Top-down construction, up to internal structures design (internal slabs/concrete shaft base slab/diaphragms walls), Development of basic design and calculation reports in French language.</i></li> </ul> <p><i>Software: Straus7, Plaxis2D, Excel, AutoCAD</i></p> <p><i>Projects: GRAND PARIS EXPRESS – Line 14 lot 4 (client: We Build); Tender TELT – Lion Turin (client: NGE Génie Civile SAS); Line 15 Sud T2A (client: Bouygues)</i></p> <ul style="list-style-type: none"> <li>▪ <i>Engineering management: Evaluation and validation of final projects issued by other engineering companies (checking of the basic design reports, calculation reports,</i></li> </ul>

	<p><i>engineering designs in accordance with current standards and the writing of a final report, called also "Red Copy"), Budget cost of work performed (BCWP) and actual cost of work performed (ACWP) monitoring,</i></p> <p><i>Software: Microsoft Office (Word, Excel), AutoCAD</i></p> <p><i>Projects: GRAND PARIS EXPRESS – Line 16-lot2 (client: We Build); Tram Train Massy Evry Project (client: ARTELIA)</i></p> <p><u>Services:</u> <i>Design, Project management, Value engineering</i></p> <p><u>Technical expertise:</u> <i>Feasibility study and concept design, project management (project planning and monitoring), advanced FE simulation</i></p>
09/2021 – today	<p><b>SYSTRA SWS</b> <i>Via Casilina 3, Rome 00182 (Italy)</i></p> <p><b>Project Management Department</b> <b>Project manager</b></p> <p><u>Detailed description:</u> <i>Activity and resource planning, organizing and motivating a project team, controlling time management (deadlines setting) and the duration of activity, analysing and managing project risk, monitoring the project progress, managing reports and necessary documentation</i></p> <p><i>Software: Microsoft Office (Word, Excel), MS Project, AutoCAD, generic PM Tools,</i></p> <p><i>Projects: GRAND PARIS EXPRESS – Line 16 lot 2 (client: We Build), many projects with client ANAS S.p.A.</i></p> <p><u>Services:</u> <i>Project management</i></p> <p><u>Technical expertise:</u> <i>project planning and monitoring, problem solving,</i></p>

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## PUBLICATIONS

*Design of a 3D model for the dimensioning of the tunnel-bypass interconnections, Grand Paris Line 14 Lot 4, AFTES 2021 (Association Française des Tunnels et de l'Espace Souterrain) for the theme "The underground, a space of innovations."*

*Mixing carbon nanotubes with asphalt binder through a foaming process toward high-performance warm mix asphalt (WMA), International Journal of Pavement Engineering.*