

CURRICULUM VITAE OF MATTEO MARIOTTI

Personal information

Matteo Mariotti

BEng MSc-Arch PhD-Eng PMP®

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E-mail matteo.mariotti@outlook.com
Nationality Italian

Fields of expertise **Project Management (certified PMP®) | Sustainable Design and | MEP Engineering**

Education

Jul 1999 **Degree in Civil Engineering** (B.Eng. Five years course) - University of Bologna
Nov 2003- Nov 2006 **PhD in Fisica Tecnica Ambientale** (ING-IND10) – Sapienza University of Rome -
Sep 2008- Sep 2009 **Research Fellowship in Fisica Tecnica Ambientale** (One year) – Gli Edifici ad alta Ecoefficienza in ambito Protetto: Sviluppo, Progetto e Monitoraggio di casi di studio) - Sapienza Università di Roma (Title of the Project –

Professional Experience

Oct 2022 - Current **Agenzia del Demanio**
Struttura di Progettazione – Rome
SPECIALISTA SOSTENIBILITÀ AMBIENTALE E IMPIANTI

- **Progettista CAM e Impianti** - Rifunionalizzazione dei volumi esterni al Forte Bravetta - *Intervento di Demolizione e Ricostruzione con Ampliamento di Volumetria Esistente*
- *Membro della Commissione Tecnica per la selezione di n. 1 Esperto tecnico in Idraulica*
- **Team Leader** – Progetto Solar School

Sep - Oct 2022 **NET Engineering – Rome**
PROJECT MANAGER - LEAD MECHANICAL ENGINEER

Main activities and responsibilities

- ATAC - Studio per la **Mobilità Sostenibile** della flotta di automezzi - Conversione ad idrogeno della flotta degli automezzi, con realizzazione della rete di produzione e distribuzione agli automezzi
- TPER (Trasporto Passeggeri Emilia Romagna) – Studio per la **Mobilità Sostenibile** della flotta di automezzi - Conversione ad idrogeno della flotta degli automezzi, con realizzazione della rete di produzione e distribuzione agli automezzi
- ADR S.p.A. – **Project Manager** - Supporto tecnico per la redazione del capitolato tecnico prestazionale per la ricostruzione della metro monorotaia di collegamento con il Terminal C
- RFI – Strategie sostenibili e ImpiantiPFTE per la galleria di bypass della città di Trento (Webuild)

April 2020 – Sep 2022 **SYSTRA SOTECNI – Rome**
LEAD SUSTAINABILITY AND MEP ENGINEER

- Main activities and responsibilities Lead Sustainability and MEP Engineer – Leads the **BIM MEP Team (BIM MEP Coordinator)** with commitments in **HYDRAULICS** in the following projects:
- Tender for the detail design “Nuovo deposito ATM di Milano per la flotta di 100 E-Bus Elettrici (with Architecna, RINA SpA e LAND italia)
 - New South Wales Government – Australia – Tender for the construction of the Western Harbour Tunnel in Sydney (Contractors **Bouygues** and **Vinci joint venture**)– **Main Sump and Water Treatment Plant Design with a capacity of 750 l/s and a pressure drop of about 100 m**
 - Italferr - Linea ferroviaria A.V. Napoli-Bari – MEP design of the Hyperbaric System (Contractor Salini Impregilo)
 - Comune di Bologna - Deposito Tramvia di Bologna – Progetto Definitivo (**Hydraulic drainage and pressure networks and MEP design of the area**)
 - Comune di Firenze - Deposito Tramvia linea 4.1 -Linea Tramviaria – Progetto Definitivo (**Irrigation, Hydraulic and MEP Design**)
 - Comune di Firenze - Tramvia linea 4.1– Viabilità - Progetto Definitivo (**Irrigation Acqueduct and MEP Design**)
 - Comune di Firenze - Tramvia linea 4.1 Deposit – Progetto Definitivo (**Drainage Network and MEP Design**)
 - Comune di Genova – Metropolitana - Tratta Canepari-Rivarolo – Progetto Definitivo (**MEP Design**)
 - Comune di Genova – Monorotaia - Fermata Aeroporto-Erzelli – PFTE (**MEP Design**)

May 2019 – April 2020 **INTEGRA AES – Rome**
PROJECT MANAGER - LEAD MECHANICAL AND PIPING ENGINEER

- Main activities and responsibilities Lead Mechanical Engineer and **BIM MEP Coordinator** – Leads the MEP Team using BIM tools in the following projects :
- World Food Programme (**WFP**) - Head Quarter in Damascus – Syria – Detail Design
 - WFP - Head Quarter in Kabul – Syria – Detail Design (ongoing)
 - United Nations Office for Project Services (**UNOPS**) – Police CCTV Head Quarter – Kabul – Afghanistan – Detail Design
 - UNOPS – Accommodations for the CCTV HQ - Kabul – Afghanistan – Detail Design

Oct 2018 – May 2019 **A.R.S. Progetti - Abu Dhabi – DEPUTY MANAGING DIRECTOR ABU DHABI**

Main activities and responsibilities

- As Deputy Managing Director for the Abu Dhabi Branch:
- Carried on the Business Development in UAE and Middle East Area
 - Monitored and Controlled the project and team performances of the portfolio
 - liaised with other consulting firms, Clients and Stakeholders
 - liaised with the Public Residence Officer (PRO)
 - liaised with the resident Consultant in Record
 - managed the administrative issues of the branch
- As a Director of Works of Restoration:
- Bait Mohamed Bin Kalifa House Project (baitmohammedbinkhalifa.ae) – Department of Cultural Heritage of Abu Dhabi - **Direction of works (with Buro Happold Engineering) of Disassembly and Reconstruction of the Stone Facade of the Building of the Muhammed Kalifa House**

Nov 2016 – Oct 2018 **INVITALIA S.p.A. – Rome – Italy – PROJECT MECHANICAL/BUILDING SERVICES DESIGN ENGINEER**

Main activities and responsibilities

- Cohordinates the design and construction design phases of the Building Services disciplines for:
- CARA, CPR and Hotspots centers across the Country within the Migrant Programme of the Italian Ministry of Interior
 - school buildings within the commitment of the Commissario Straordinario SISMA 2016
- In charge also for Project Verifications, Feasibility Plans, Economic Evaluations and Estimations and **application of the new born DM 11.10.2017 Criteri Minimi Ambientali** .

Sep 2013 – Nov 2016 **Proger S.p.A. – Rome – Italy - PROJECT ENGINEER– SR. MECHANICAL DESIGN ENGINEER**

Main activities and responsibilities

- Project Manager – Roma (01/2016 – 10/2016)**
- Al Mafrq 1 PV Power Station – Jordan - Royal Jordan Air Force - Development of the Corporate/Contract Structure and of the entire Business/Financial Plan
 - Feasibility Analysis Dossier of the Proposal for the Cuba's Waste Management Project
- Sr Mechanical Engineer – Ryad (KSA) (01/2015 – 12/2015)**
- KAP4 Security Headquarters Development Programme (Amount of work 1.6B\$) - Ministry of Interior
- Sr Mechanical Engineer – Roma (09/2013-12/2014)**
- Extension of the Monserrato Polyclinic in Cagliari – Detailed Design
 - Monteluca Mixed Complex Detailed and Construction Design – Perugia – LEED Responsible
 - Tender for the Construction of the Energy Center in Turin
 - Tender for the Design of the Credito Cooperativo Bank Headoffices in Palestrina
 - Tender for the Construction of the third phase of the High velocity Rail station of Afragola - Naples
 - Private tender for the construction of the Flaminia Clinic – Roma
 - Tender for the retrofitting of the UBAE Bank Building in Roma

2010-13 **ENETEC S.r.l. Energetica e Realizzazioni Impianti**
CHIEF MECHANICAL DESIGN ENGINEER

- Aljalila Children Speciality Hospital – Dubai – Detailed Design (Client: STUDIO ALTIERI S.p.A.)
- Campidoglio 2 New Headoffices for the Municipality – Roma - Detail and Construction Design (Client: ASTALDI S.p.a. - with Proger and ABDR)
- Trigeneration Plant of Cinecittà World – Roma (IT) - Detail/Construction Design (Client: Acea SpA)
- “Donegani” ENI Research Centre on Not Conventional Energy Sources – Novara – Feasibility Study on the use of renewable energy strategies for the HVAC systems (Client E.N.I. S.p.A.)
- Energy Efficiency Strategies for the Cattinara and Burgo Garofolo Hospitals (With HDR/TMK, SBG&Guerrini, Lenzi Consulting) – Tender Design - Trieste
- Trigeneration Plant Centro Commerciale Laurentino – Roma - Italy – Detail and Construction Design (Client: Parsitalia Real Estate)
- District Heating/Cooling system of Cinecittà World Amusement Park– Roma - Italy – Detail and Construction Design (Client:Cinecitta`Parchi)
- Santa Chiara Water Amusement Park– Rende – Italy - Detail Design (Client:Studio Capolei Cavalli)

Aug 1999 – Sept 2013 **ECH Engineering for Cultural Heritage**

INDIPENDENT CONSULTANT in CIVIL ENGINEERING – Roma, Italy

- Main activities and responsibilities
- Heritage Malta – World Heritage Site of Hal-Saflieni Hypogeum and Site Visit in Paola (MT) – Project Manager for the Passive and Active Microclimate Control of the Hypogeum – Preliminary and Detail Design. Member of the Tender Commission.
 - Parsitalia S.p.A: – Asilo di Prima Porta, Roma (IT) – Study of the natural ventilation strategies using CFD simulations for the construction design;
 - Vianini S.p.A: – Consultancy for the optimization of the **Natural Ventilation Strategies and for HVAC systems of the Palasport of Torvergata**, Rome (Architect Santiago Calatrava) using CFD (Computational Fluid Dynamic) simulations.
 - Lega Ambiente e Lega Coop - 1' prize for the abitareECOstruire award – **Sustainable, Structural and MEP design** of a 5 storey Residential Building in Pesaro - 1' prize for the abitareECOstruire award consisting of the appointment for the Preliminary, Detail and Construction Design of the Structures and MEP systems
 - IDEA FIMIT S.G.R. S.p.A. Real Estate Fund – Mechanical Engineering - Comparative Assessment of the **District Heating/Cooling Energy Performace of Bufalotta Area in Rome** (IT) - Consultancy in Mechanical Engineering
 - Private Client – Private Villa in San Niccolò, Mantova (IT) – **Structural and MEP Preliminary, Detail and Construction design**
 - Il Borgo S.r.l. – Consolidation of Palazzo Siliprandi in Mantova (IT) – **Structural Preliminary, Detail and Construction design**
 - Private Client – **Restoration of the Uccelliera of Palazzo Chigi in Ariccia**, Roma (IT) – **Structural detail design**
 - Il Borgo Srl - Underground Parking in Manova (IT) – **Structural detail and construction design**

Sep 2003 – Aug 2010

University of Rome "La Sapienza"

CONTRACT PROFESSOR/RESEARCHER IN MECHANICAL ENGINEERING (Building Services)

Main activities and responsibilities Courses at Sapienza University of Roma

Faculty of Architecture "Valle Giulia"

- Contract Professor – Course of Buildings Services (A.Y. 2005/2006 - 2007/08 - 2008/09 - 2009/10)
- Contract Professor - Course of Building Physics (A.Y. 2006/07 - 2007/08 - 2009-10)
School Specialization, Architecture and Landscape Heritage (M.Sc.)
- Tutor - Course of Mechanical Systems in Existing Buildings (2005/06 - 2006/07 - 2007/08 - 2009/10)
- Contract Professor - Course of Energy Efficiency in Cultural Heritage (2009/10)

Languages Skills

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	good	excellent	excellent	good	good
French	fair	good	fair	fair	fair

Organisations

Sep 1999 - to date

Member of the Engineering Council of the Province of Rome – Italy – Sect. A, registration n. 226601

Sep 2015 - to date

Project Management Professional (PMP®) certification n. 4321073 - Project Management Institute (PMI)

Computer skills

MS Office
Project/Contract Management Tools
Publications / Presentation Packages
Drawing tools
Energy Simulations (Advanced)

MS Word, Excel, Access, Power Point
MS Project, Oracle P6, Oracle Aconex
Adobe Photoshop, PowerPoint, Visio
Revit Architecture
Revit MEP, MC4 for Revit, Edilclima, TFM8,
HAP by Carrier, TrnSys , Ansys Fluent (CFD)

Roma 22/05/2023

Signature

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I authorize the use of the Curriculum Vitae personal data on the base of the art.13 of the D.Lgs.196/2003 and of the art.13 GDPR 679/16 (Regulation UE 2016/679)

PUBLICATIONS OF MATTEO MARIOTTI

Papers in Journals and Conference Proceedings

1. Mariotti, M. (2012), **Comfort, Energy and Architecture, influences of Comfort theories and Energy on Architecture and Cities**, Proceedings of the Congress Le dispositifs du confort dans l'architecture du XX^e: connaissance et strategies de sauvegarde, 12-13 September, 2012, Lausanne, Switzerland
2. Mariotti, M. (2012), **Origins of Sustainability in Cultural Heritage, Proceeding of Heritage 2012 – 3th International Conference on Heritage and Sustainable Development**, 19-22 June, 2012, Oporto, Portugal
3. Mariotti, M. (2011), **Coperture archeologiche nell'area mediterranea**, Atti del IX Corso di Perfezionamento in Restauro Archeologico, A linea, 2011, Firenze
4. de Santoli, L., Mariotti, M. (2011), **Energy efficiency in historic buildings, Proceedings of Energy Management in Cultural Heritage**, 6-8 April, 2011, Dubrovnik, Croatia.
5. Caruso, G., de Santoli, L., Mariotti, M. (2010), **Long term prediction of marble erosion for the conservation of the statue of David of Michelangelo**, IAQ 2010, 9th Indoor Air Quality Meeting IAQ 2010, 21-23 April 2010, Chalon-sur-Saône. Published in www.iaq.dk
6. de Santoli, L., Mancini, F., Mariotti, M. (2010), **The energy performance of the Galleria Nazionale di Arte Moderna (GNAM) in Rome, Proceeding Clima 2010**, 9-12 May, Antalya, Turkey
7. de Santoli, L., Mariotti, M. (2009), **Le linee guida per l'uso efficiente dell'energia nel patrimonio storico**, in Restauro Archeologico n1/2010, ALINEA, Firenze, 2010
8. de Santoli, L., Mariotti, M. (2009), **Natural Ventilation in a kindergarten in Rome**, Proceeding of the 30th AIVC Conference "Trends in high performance buildings and the role of ventilation", 1-2 October 2009, Berlin, Germany.
9. de Santoli, L., Mariotti, M. (2009), **Assessment of the indoor condition of a naturally ventilated nursery school in Rome**, Proceeding of Ventilation 2009, the 9th International Conference on Industrial Ventilation, Zurich, Switzerland.
10. de Santoli, L., Mariotti, M. (2009), **L'uso del comportamento passivo nelle coperture archeologiche**, in Restauro Archeologico, ALINEA, Firenze, 2008
11. de Santoli, L., Mariotti, M. (2008), **Roughness measures for ranking stone decay**, Proceedings of the International Workshop SMW08, 27-29 October 2008, Florence, Italy, Edifir Edizioni, Firenze, 2008.
12. de Santoli, L., Mariotti, M. (2008), **Tecniche di ventilazione naturale nella progettazione delle coperture archeologiche**, in Restauro Archeologico, 2/2008 ALINEA, Firenze, 2008.
13. de Santoli, L., Caruso, G., Mariotti, M. (2007), **Optimization of the HVAC systems in the Large Buildings of the "Città dello Sport" in Rome, using CFD simulation**, proceedings of Climamed 2007, 5-7 September, Genova, Italy.
14. de Santoli, L., Mariotti, M. (2007), **Natural ventilation strategies for passive climate control in the archaeological area of the tempio di Ercole Vincitore in Tivoli**, Proceedings of the 6th International Conference on Indoor Air Quality, Ventilation & Energy Conservation in Buildings - IAQVEC 2007 Oct. 28 - 31 2007, Sendai, Japan
15. de Santoli, L., Mariotti, M. (2006), **La progettazione dei sistemi di protezione archeologica mediante le tecniche di fluidodinamica computazionale**, Lezioni del Quarto Corso di perfezionamento in restauro dei manufatti architettonici allo stato di rudere, 2004-05, Alinea – Firenze.
16. de Santoli, L., Mariotti, M. (2006), **La progettazione dei sistemi di protezione archeologica mediante le tecniche di simulazione CFD**, in Restauro Archeologico, ALINEA, Firenze, 2008.
17. de Santoli, L., Mancini, F., Mariotti, M. (2006), **A curtain of Air for the statue of David**, Fluentnews, Summer 2006.
18. de Santoli, L., Cumo, F., Mariotti, M. (2006), **Le analisi ambientali per la conservazione**, in La Cappella Contrari nella Rocca di Vignola, 2007, Milano, Jaca Book.
19. de Santoli, L., Cumo, F., Mariotti, M. (2006), **Air curtain in cultural heritages**, In: Air Pollution The New Forest, England, 20-26 Maggio, The New Forest
20. de Santoli, L., Mancini, F., Mariotti, M. (2005), **Proposta di interventi impiantistici per la tutela del David di Michelangelo nei confronti delle sostanze aerodisperse**, in Atti del convegno "Tecnologie impiantistiche nei musei", Aicarr, Roma, 2005.
21. de Santoli, L., Mancini, F., Mariotti, M. (2005), **Air curtains as a protection for indoor cultural heritage: a proposal for Michelangelo's David in Florence**. In: Indoor Air 2005. Beijing, 4-9 September.
22. de Santoli, L., Mancini, F., Mariotti, M. (2005), **Air curtain as a protection for the statue of David In Florence**, proceedings Clima 2005 - 8th REHVA World Congress, 9-11 October 2005, Lausanne.
23. de Santoli, L., Mariotti, M. (2004), **Interazione fra microclima interno e consistenza statica delle tombe ipogee in Conservare il passato, metodi ed esperienze di protezione e restauro nei siti archeologici**, a cura di Varagnoli C., Gangemi, Roma, 2005.
24. de Santoli, L., Mariotti, M. (2004), **Study to protect Michelangelo's David from indoor air pollutants**. In: 7th Air Quality Meeting, Padova, 10-12 November 2004

25. de Santoli, L., Mariotti, M. (2004), *Il problema della conservazione degli ambienti ipogei: il caso della tomba della Montagnola a Sesto Fiorentino*, in *Restauro Archeologico* n2/2004, ALINEA, Firenze, 2004.
26. Mariotti, M. (2003), *Nota sull'architettura della chiesa della Madonna del Piano*, in *Arte a Capranica*, edited by Enrico Guidoni, Roma, Davide Ghaleb Editore.

Books

1. de Santoli, L., Filippi, M. Mariotti, M. (2010), *IEE – Indoor Environment Engineering*, LAP Lambert Academic Publishing.
2. de Santoli, L., Mariotti, M. (2011), *La ventilazione naturale, l'uso del moto naturale dell'aria per il controllo delle condizioni ambientali*, Dario Flaccovio, 2011, Palermo

Roma, 22/05/2023

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