



INFORMAZIONI PERSONALI

Name **MARCO MARTIGNON**
Qualification **ELECTRONIC ENGINEER - CLINICAL ENGINEER SPECIALIST**
Working Position **EXECUTIVE**

WORKING EXPERIENCES

- Date (from – to) *2005 – NOW – Modena, Italy*
 - Employer Azienda USL MODENA
 - Company PUBLIC HEALTH SERVICE
 - Role and profile **CLINICAL ENGINEER MANAGER**
- Main Tasks **CLINICAL ENGINEER MANAGER IN MEDICAL IMAGING, NUCLEAR MEDICINE, RADIOTHERAPY AND HOSPITAL MEDICAL DEVICE APPLICATION SOFTWARE –MODENA'S HOSPITALS COUNTRY**

From 2006 Clinical Engineer Manager of Modena Hospitals (about 10 hospitals and health house) and for Medical Imaging Equipment. The work consist in management this kind of medical equipment how: supply, maintenance, project, installation, safety in particular for big equipment as RX, MRI,, CT, LINAC, CT-PET, CT-SPECT, angiography, mammography...etc and RIS-PACS information system management and some other software department systems
Health Tecnology Assessment of big equipment and many other devices for ICU, OR, cardiology, emergency..etc
Other medical software devices as:
-RIS-PACS Radiology Information Systems Modena's Hospitals
-CIS Cardiology Information Systems Modena's Hospitals collect all information about ECG exams-
Ecography PACS Information System Modena's Hospital: collect all information about ecography exams
- Main projects
 - Obstetric and Ginaecology Ecography PACS and Bitest analysis information systems: collect all information about this clinica activity how structured medical report, laboratory exams and imaging data from ultrasound equipment
 - Radiology dashboard project and developement for Modena's Hospitals: this is a graphic web based tool that support operators and managers to evaluate activity in radiology and equipments used time
- Date (from – to) *2001 – 2005 – Modena, Italy*
 - Employer /
 - Company /

• Role	FREE LANCE
• Main Tasks	Free Lance as Clinical Engineer in <i>HTA</i> (Health Technology Assessment) apply for impact analysis choice and supply biomedical technology in particular to implement planning for technology of new Baggiovara and Sassuolo hospitals Other activity as expert consultant in legal context and as software developer for companies in biomedical context with Matlab. MS Visual Basic ,Access/SQL, C++.
• Date (from – to)	2000 –2001 – Trieste, Italy
• Employer	<i>Area Science Park – Consortium for Scientific and Technological Research</i> 
• Company	<i>ItalTBS Spa – Clinical Engineer Services</i> 
• Role	Scholarship –FRIULI VENEZIA GIULIA Region
• Main Tasks	Clinical Engineer Services, Electrical Safety and Functionality Testing, IEC Norms and law for medical equipment, defining and editing control protocols for several kind of medical equipment as defibrillators, infusion pumps, patient ventilators, elettrocardiographs, ultrasound equipment and big equipment
• Date (from – to)	1999 –2000 – Treviso, Italy
• Employer	<i>SIM SOFTWARE SRL</i>
• Company	<i>Software House</i>
• Role	SOFTWARE ANALYST AND DEVELOPER
• Main Tasks	Developing application software as Cobol R85, Visual Basic, SQL Server on Windows and Unix for small companies in Veneto Region.
• Date (from – to)	1998 –1999 – Padova, Italy
• Employer	ENGINEERING SPA 
• Company	Software House
• Role	SOFTWARE DEVELOPER
• Main Tasks	Developing application software as COBOL, DB2 , IBM Mainframe for Bank and Insurance Company together Andersen Consulting
• Date (from – to)	1997 – 1998 Roma , Italy
• Employer	MINISTERO DEGLI INTERNI 
• Company	Firemans Department
• Role	Military Service
• Main Tasks	Assistant Fireman

- Date (from – to) 1996 –1997 Treviso, Italia
- Employer MINISTERO DELL'ISTRUZIONE

- Company Teaching at technical institute schools Below:
I.T.I.S. Galileo Galilei Conegliano veneto (TV)
I.P.S.I.A. Galileo Galilei Montebelluna (TV) and Castelfranco Veneto (TV)
I.T.I.S. Max Planck Treviso
- Role **TEACHER**
- Main Tasks Electronics, Informatic and Design Technology matters

EDUCATION AND TRAINING

- Date (from – to) September 2024 - December 2024
- Insitute Regione Emilia Romagna

Regione Emilia-Romagna
- Main Skills **PNRR Health Management Training Course – M6 C.2.2(c): Development of technical-professional, digital, and managerial skills for regional health system personnel – Academic Year 2021/22, 2nd Edition**
Total 200 hour
Project Work: “Performance Assessment of Territorial Operations Centres”
- Study Level **Mild Manager**
- Date (from – to) September 2022 - March 2023
- Insitute University of Modena and Reggio Emilia

UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA
- Main Skills **Advanced course in Management of complex healthcare facilities**
A.Y. 2021/22 II edition
Total 120 hour
Project Work “Optimization of planning processes for patients awaiting admission from the Emergency Department: digital reception, triage and hospitalization experiences.”
- Study Level **Complex Department Executive**
- Date (from – to) May-July 2018
- Insitute AUSL Modena

SERVIZIO SANITARIO REGIONALE
EMILIA-ROMAGNA
Azienda Unità Sanitaria Locale di Modena
- Main Skills Management Academy AUSL Modena Course
Total 84 hours (SDA Bocconi)
Project Work “Bundled Payment in femur-fracture patient path”
- Study Level **Manager**

- Date (from – to) 2000 – 2002 – Italia
- Insitute University of Trieste



- Main Skills Clinical Engineering Specialization Course
- Certificate Clinical Engineering Specialist
- Study Level **POST-LAUREAM DIPLOMA**

- Date (from – to) 1996
- Insitute University of Padua - Italy



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

- Main Skills Engineering
- Certificate State examination for professional engineering licensure
- Study Level **Engineer Enabling Certificate**

- Date (from – to) 1990 – 1996 July 9th
- Insitute University of Padua - Italy



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

- Main Skills Electronic Engineering Degree
- Certificate Electronic Engineering Degree
- Study Level **Electronic Engineering Degree - Biomedical Branch**

NATIVE LANGUAGE ITALIAN

OTHER LANGUAGE

ENGLISH

- Reading GOOD
- Writing GOOD
- Speaking NICE

RELATIONAL SKILLS AND COMPETENCES

Many years of experience in the management of supply contracts and in relations with external private suppliers

**ORGANIZATIONAL SKILLS
TECHNICAL SKILLS AND COMPETENCES**

Many years (18) of experience in personnel management (about 5 people)

Many years of experience in the management, supply, installation and design and layout of large biomedical equipment (about 10 CT, 6 MRI, 6 angiograph, 20 RX fixed equipments, 1 SPECT-CT, 1 CT-PET, 3 LINAC ecc and many other for ICU, OR, emergency, ultrasound etc)
Multiyear Experience In Carrying Out Public Tender For The Supply And Evaluation Of Biomedical Technologies And Medical Software (also equipment for medicine, rehabilitation, intensive care, surgery and functional exploration in general, radiology and diagnostic imaging, ultrasound, nuclear medicine and radiotherapy.)

PUBLICATIONS & ABSTRACT

- "The management of biomedical technology in a hospital of a developing country: the support of the Clinical Engineering Department of AUSL of Modena to the Hospital of Tirana in inventory,

- *maintenance procedures and training". IFMBE Proceedings Medicon 2001 1th december. Authors: Marco Martignon, Sonia Cecoli, Giampiero Pirini, Massimo Garagnani, Giancarlo Conti*
- *"The importance of web source certification in Health Technology Assessment evaluations: proposal of a method" Innovazione e Qualità nella Sanità 2002 1th April. Authors: Marco Martignon, Giovanni Arcuri, Paride Lambertini, Claudio Lamberti, Giampiero Pirini, Massimo Garagnani*
- *"The RIS-PACS project of the Modena's Hospitals Country" . Management in Sanità N.29 2008 march Authors: Marco Martignon, Massimo Garagnani, Mario Lugli.*
- *"Retention of Clinical Documentation in Diagnostic Imaging Departments: Legislation (Part I)" Tecnica Ospedaliera 1 ottobre 2008. Autori: Marco Martignon, Alessandra De Palma, Massimo Garagnani*
- *"Retention of Clinical Documentation in Diagnostic Imaging Departments: Legislation (Part II)" Tecnica Ospedaliera 2008 1th November. Authors: Marco Martignon, Alessandra De Palma, Massimo Garagnani*
- *"Quality control for ultrasound diagnostic equipment." Tecnica Ospedaliera 2009 1th May. Authors: Marco Martignon, Luca Carradori*
- *"Quality control for ultrasound diagnostic equipment." Abstract AIIC 2009 Congress IX Palermo*
- *"The Radiology Dashboard for the Province of Modena": An example of software development for monitoring healthcare activity and the utilization of biomedical technologies. Tecnica Ospedaliera n.7 2023 September. Authors: Marco Ingg. Martignon Vincenzo Garaffa, Sonia Cecoli, Massimo Garagnani - Ingegneria Clinica. Proff. Pietro Torricelli, Guido Ligabue, Dott. Raffaele Sansone. Dipartimento Interaziendale Integrato per la Diagnostica per Immagini*
- *"Radiology Dashboard for the Modena Local Health Authorities (USL) and University Hospitals (OU)" Abstract al XXV congress AIIC 2025 Napoli*
- *"Radiology Dashboard for the Modena Local Health Authorities (USL) and University Hospitals (OU)" Abstract al XXVI congress AIIC 2026 Torino*

PROJECT WORKS/RELATOR

- *"Holter Electrocardiography Equipment" Year 2003 Biomedical Engineering Degree. University of Bologna. Student: Marco Benini*
- *"Biomedical Equipments Informatics Integration in Cardiology Department" Year 2005 Biomedical Engineering Degree. University of Bologna. Student: Erica Roli*
- *"Hospital Electrical Safety on Medical Equipment" Year 2005 Clinical Engineering School (1° level Degree). University of Bologna. Student: Daniele Gallo*
- *"Medical Equipment technology in Medicine and Rehabilitation Department of New Baggiovara Hospital", Year 2005 University of Bologna. Student: Vincenzo Garaffa*
- *"RIS-PACS Modena Hospitals: The project ". Year 2007 Clinical Engineering School (2° level Degree). University of Bologna. Student: Vincenzo Garaffa*
- *"RIS-PACS Modena Hospitals: Maintenance and Developement" Year 2007 Clinical Engineering School (2° level Degree). University of Bologna. Student: Corrado Pellicciari*
- *"Quality Testing on Ultrasound Equipment" Year 2008 Clinical Engineering School (2° level Degree). University of Bologna. Student: Luca Carradori*
- *"Validation and Experimentation Protocols for Biomedical Equipment Technology". Year 2009 Clinical Engineering School (2° level Degree). University of Bologna. Student: Raffaele Nativio*
- *"Developement of an Open Source Information System for Remote monitoring of Medical Equipment Functionality" Year 2011 Biomedical Engineering Degree. University of Bologna. Student: Sara Menozzi*
- *"Automated Breast Ultrasound Systems for Diagnosys of Mammary Carcinoma" Year 2019 Clinical Engineering School (2° level Degree). University of Bologna. Student: Greta Puleo*
- *"Tecnological Evolution of LINAC: MR-LINAC" Year 2021 Clinical Engineering School (2° level Degree). University of Bologna. Student: Giulia Marchionni*
- *"BMES: BODY COMPOSITION EVALUATION SOFTWARE" Year 2021 Clinical Engineering School (2° level Degree). University of Bologna. Student: Manuela Lorenzetti*
- *"Phase 4D-FLOW Contrast Sequence in MRI for Cardiovascular Disease Analysis" Year 2021 Clinical Engineering School (2° level Degree). University of Bologna. Student: Jennifer Agnone*
- *"State of Art of LINAC for Radioteraphy e Prontoteraphy" Year 2022. Clinical Engineering*

- School (2° level Degree). University of Bologna. Student: *Ivan Brunelli*
- *"PNRR European Recovery Planning and The Medical Equipment in Emilia-Romagna Region"* Year 2022. Clinical Engineering School (2° level Degree). University of Bologna. Student: *Maria Grazia Colistra*
- *"Medical Device Software for Diagnostic Imaging: Norms and Law"* Year 2022. Clinical Engineering School (2° level Degree). University of Bologna. Student: *Lorella Bottino*
- *"Robotic Surgery and AI Software Evolution "* Year 2023. Clinical Engineering School (2° level Degree). University of Bologna. Student: *Massimo Girolimini*
- *"Treatment of tremor via thermoablation of Vim with MRgFUS techniques in l'IRCCS Centro Neurolesi "Bonino Pulejo" Messina's Hospital" – Year 2024 Project Work Clinical Engineer Master 2° Level – Bologna's University Student: Antonino Longo*
- *"Sizing Criteria for Biomedical Technology in a Nuclear Medicine Unit" Year 2024 Project Work Clinical Engineer Master 2° Level – Bologna's University Student: Julia Poe*
- *"Innovations Serving the Emilia-Romagna Healthcare System in Radiotherapy and Nuclear Medicine" Year 2024 Project Work Clinical Engineer Master 2° Level – Bologna's University Student: Maria Bruna plasmati*
- *"he challenge of automation in RAS (Robotic-Assisted Surgery) systems" Year 2024 Project Work Clinical Engineer Master 2° Level – Bologna's University Student: Sara Cuscunà*
- *"Bone Densitometry Techniques Compared: A Comparative Analysis of DXA and REMS" Year 2025 Project Work Clinical Engineer Master 2° Level – Bologna's University Student: Federica Guerra*
- *"The evolution of magnetic resonance imaging systems" Year 2025 Project Work Clinical Engineer Master 2° Level – Bologna's University Student: Selene Iacovelli*
- *"Comparing Innovations: Optical Coherence Tomography Systems" Year 2025 Project Work Clinical Engineer Master 2° Level – Bologna's University Student: Lorenzo De Massis*
- *"Artificial intelligence for clinical patient assessment: market analysis of solutions based on physiological parameters" Year 2025 Project Work Clinical Engineer Master 2° Level – Bologna's University Student: Anna Maria Carluccio*
- *"Quality of healthcare services and accreditation of healthcare facilities: evolution and state of the art of technologies" Year 2025 Project Work Clinical Engineer Master 2° Level – Bologna's University Student: Miccoli*
- The role of Clinical Engineer in quality assurance and accountability in Health Organization. Engineering Department University of Bologna. Seminary Year 2004. Prof. Claudio Lamberti
- *Digitalization and Dematerialization in Hospitals Country Department - MEDMATICA* Vicenza november 2007. Conference
- *Communication of Health Data: digital organization and telemedicine experiences-MEDMATICA* Vicenza november 2008. Conference
- Technological problems of patient identification in complex medical systems - HEALTHCARE RISK MANAGEMENT Arezzo november 2009. Conference
- *"Ecocolordoppler of the supraortic Trunks: Physic Principles and practical application."* Baggiovara Modena December 2013. National Advanced Course in Neurovascular Ultrasound - SINV - Società Italiana interdisciplinare Neurovascolare . Seminary
- *"Quality Assurance protocols in Healthcare"* Engineer Institution of Modena. 2014. Seminary
- *"Risk Analysis in medical device".* Engineer Institution of Modena. 2014. Seminary
- *"Robotic Surgery And New Frontiers In The Healthcare Field".* Engineer Institution of Modena. 2015. Seminary
- *"Electrical Safety Checks And Functionality Of Electro-Medical Equipment In The Healthcare Field"* Engineer Institution of Modena. 2015. Seminary
- *"The Management Of Ris-Pacs Systems In Diagnostics By Images, Regulatory Aspects And*
- *"The New Regulations On The Matter Of Dm. Seminar Cycle: Gdpr – New European Regulation 2016/679 On The Protection Of Personal Data"* Engineer Institution of Modena. 2018. Seminary
- *"The Evolution Of Ris-Pacs Information Systems"* E-Health Hospital Experience Ospedale di Baggiovara Modena. Aprile 2014.
- *Security Policies"* Engineer Institution of Modena. 2016. Seminary *"The State Of The Art of Radiological Equipment And Reference Standards"* 2021. 8 hours training course for workers of

RELATOR/SPEAKERS

OTHERS

Certification Body KIWA CERMET Spa Bologna

- "New Frontiers In Operating Room Integration" EXPO' SANITA' Bologna 2022. Conference
- Since 2006: Adjunct Professor at the University of Bologna Level II Master's Program in Clinical Engineering and Medical Devices Course: "Biomedical Technologies"
<https://master.unibo.it/ingegneria-clinica-e-dispositivi-medici/it>



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

- Since 2014 Coordinator Of The Biomedical Engineers Group Within The Hospital, Biomedical And Health Engineering Commission Of The Order Of Engineers Of The Province Of Modena
<https://www.ordineingegnerimodena.it/verbal-e-delibere/>



- In 2021 teaching assignment at KIWA Cermet Spa on the state of the art and regulations regarding radiological equipment.



- Since 2022: Adjunct Professor at the University of Modena and Reggio Emilia Faculty of Medicine and Surgery Teaching module: "Computer Science" (INF/01) For the Bachelor's degree programs in Midwifery, Dental Hygiene, Dietetics, Biomedical Laboratory Technology, Medical Radiology and Radiotherapy Technology, and Cardiology Technology.
<https://personale.unimore.it/rubrica/dettaglio/mmartign>



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I authorize the processing of the personal data contained in my CV in accordance with Legislative Decree 196/2003 and EU Regulation 2016/679 (GDPR).

Signature