

Federico Silipo

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**CURRENT
POSITION**

Clinical Engineer, Head of the Critical Care Areas and Medical Devices Unit at Servizio Unico Ingegneria Clinica Modena (AUSL and AOU Modena)

**PROFESSIONAL
EXPERIENCE****Since 2025**

Teaching appointment on the "Master's Degree Course in Nursing and Midwifery Sciences – Community Care" programme, for the module "Telemedicine services and tools: tele-assistance, tele-monitoring, tele-consultation"

Since 2025

Teaching at ITS Academy Biomedicale di Mirandola, in the modules "Mobile health medical device software" and "Digital Health"

Since 2024

Teaching on the "Advanced training course in management for the direction of complex healthcare organisations", on "Application of HTA procedures in the selection of healthcare technologies"

**From September 2009
to present**

Clinical Engineer at Servizio Unico Ingegneria Clinica Modena
Head of the Critical Care Areas and Medical Devices Unit (UOS)

Employed manager at Servizio Unico di Ingegneria Clinica di Modena: I am responsible for procurement management and planning, defining requirements, analysing and evaluating the available technological and organisational solutions, and planning investments. I manage the installation and operation of biomedical technologies and medical devices, including diagnostic and therapeutic equipment for neurology and cardiology, dialysis equipment, operating theatre equipment, sterilisation and high-level disinfection equipment, diagnostic/therapeutic equipment for intensive care, and emergency department and emergency-response equipment and devices.

I manage procurement and planning for orthopaedic implantable medical devices and active implantable devices.

I am responsible for the design and set-up of critical care areas, in particular operating theatres and intensive care units.

I am the project lead for the certification of the central sterilisation unit to the UNI EN ISO 13485 standard.

I work on innovation projects in medical device and health technology management, in particular for the traceability of medical devices in the operating theatre.

I have carried out installations of audio/video signal management systems in operating theatres.

I oversee project management for medical software (provincial telecardiology, the corporate cardiology archive, HL7 integration of diagnostic systems and the Hospital Information System in cardiology, neurology, ophthalmology and diabetology, the provincial telemedicine system, and sterilisation traceability systems).

I work on the development of statistical indicators and the processing of clinical data through Business Intelligence tools.

I am Chair of the Provincial Medical Device Evaluation Unit (Nucleo Provinciale di Valutazione dei Dispositivi Medici), a member of the Area Vasta Emilia Nord Medical Device Committee and of the Scientific Secretariat of the Regional Medical Device Group.

In evaluating medical device requests, HTA methodologies are applied to assess the clinical, organisational and economic impact of the requested technology.

I am a member of the provincial Telemedicine Steering Committee, as technology lead.

I am a member of the regional telemedicine working group.

I take part in tender evaluation committees at corporate, area-wide (Area Vasta) and regional level.

I have contributed to the design and development of Big Data analysis projects applied to the clinical field (participation in the "Autonomous Medical Monitoring and Diagnostics" project in collaboration with ESA – the European Space Agency).

■ Since 2017, Head of the Community Care, Medicines and Medical Devices Unit

■ Since November 2020, Head of the Critical Care Areas and Medical Devices Unit

From June 2004
to August 2009

Professional collaboration with the Clinical Engineering Service, AUSL Modena

From June 2004
to December 2013

Clinical Engineer at the Regional Health Technologies Group

Professional collaboration with the Gruppo Regionale Tecnologie Sanitarie, Economic and Financial Planning Service, General Directorate for Health and Social Policies, Emilia-Romagna Region, within the Regional Technology Observatory, where I was responsible for drafting Health Technology Assessment reports, managing and statistically analysing the regional biomedical equipment inventory, and managing the Gruppo Regionale Tecnologie Sanitarie website; for the Regional Medical Device Observatory; the Regional Innovation Observatory; the "Cost-effectiveness analysis of hip arthroplasty procedures" project; and the regional ICT project "Federated PACS".

From January 2006
to December 2008

Collaboration with a company operating in the production, processing and marketing of personal monitoring solutions aimed at increasing safety both inside and outside buildings, and for hazardous situations of all kinds.

From April 2005
to April 2011

Teaching activity on the first- and second-level Master's programme in "Clinical Engineering" at the University of Bologna, within the course "Health Informatics and Telemedicine".

EDUCATION AND TRAINING

2024

Development of technical-professional, digital and managerial skills for healthcare system staff: management training course funded by PNRR Salute – M6 C.2.2(c)

2023 Advanced training course in management for the direction of complex healthcare organisations

2015 Project Management course

1997–2003 **Degree in Electronic Engineering, Biomedical track**
University of Bologna

During my studies I completed a practical traineeship at Azienda USL di Modena in the Clinical Analysis Laboratory unit, and my thesis was titled “Application of an HTA procedure to the management of operating theatre information flows”.

1992–1997 **Classical high school diploma**
Liceo classico R. Corso di Correggio

PERSONAL SKILLS

Mother tongue Italian

Other languages
(English)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	Production
B	C	B	B	B
International House of Dublin – Advanced level				

Communication skills Excellent communication skills gained through teaching activities and staff training on the effective and safe use of biomedical equipment installed in hospitals.

Organisational and management skills Excellent organisational and management skills gained through leading complex projects and through training and coordination activities with adult groups in an association setting.

Professional skills Through my professional experience I have acquired competence in the UNI-EN-ISO standards for biomedical equipment and medical devices (risk analysis, electrical safety, quality management), in international legislation and regulatory systems for medical devices, in the management of a clinical engineering service, in project and activity planning related to the installation and maintenance of technologies, and in leading working groups.

I have a solid command of database management tools and a good understanding of the organisational workflows involved in hospital and community-based clinical practice. I have also acquired skills in the management of data and telecommunications networks, including for medical use.

Digital skills Excellent knowledge of Microsoft Windows and Microsoft Office, in particular MS-Access, MS-Excel and MS-Visio. Familiarity with the Linux operating system and Open-Source applications. Knowledge of programming in C, Java and Visual Basic, and of SQL, ASP, MySQL and PHP.

Driving licence Category B

ADDITIONAL INFORMATION

Publications, presentations, projects, conferences

- “Combined Effects of Age and Comorbidities on Electrocardiographic Parameters in a Large Non-Selected Population”. Paolo Giovanardi, Cecilia Vernia, Enrico Tincani, Claudio Giberti, Federico Silipo and Andrea Fabbo. Journal of Clinical Medicine. June 2022.
- “Il ruolo dell'integrazione tecnologica nello screening del paziente diabetico: una indagine di HTA.” Massimiliano Musazzi, Federico Silipo, Fabrizio Schettini, Sonia Cecoli, Lucrezia Ferrario, Emanuela Foglia. E-Health, June 2020.
- “Telemedicina per il PDTA del diabete”. Author: Federico Silipo, Health Technology Challenge session, AIIC National Conference, May 2019.
- “Data Mining for Astronauts Medical Autonomy”. Jose Martinez-Heras (Black Hat S.L.), Alessandro Donati (European Space Agency), Volker Damann (European Space Agency), Jacopo Biancat, Chiara Brighenti, Attilio Brighenti, Francesca Ferrari and Roberto Chientaroli (S.A.T.E. Systems and Advanced Technologies Engineering S.r.l., Venice), Giovanni Arcuri, Federico Silipo, Tommaso Trenti, Mauro Zennaro (Azienda USL Modena). SpaceOps Conference, 2016.
- “Tecnologie in sala operatoria: le prospettive della robotica”. Authors: Giovanni Arcuri, Federico Silipo, Massimo Garagnani, Claudio Conti, Micaela Piccoli. E-Health – Innovazione e tecnologia in ospedale, issue 49, September 2016.
- “Applicazione di indicatori di processo ed esito ai centri diabetologici tramite introduzione di una cartella diabetologica provinciale”. Author: Federico Silipo, Corporate and System Governance session, 9th SiHTA National Congress, October 2016.
- “Il ruolo dei professionisti nell'acquisizione delle tecnologie, il caso delle protesi d'anca”, Dossier 208-2011, Agenzia Sanitaria e Sociale Regionale, Emilia-Romagna Region.
- “Modeling the cost-effectiveness for cement-less and hybrid prosthesis in total hip replacement in Emilia-Romagna, Italy”. Di Tanna G.L., Ferro S., Cipriani F., Bordini B., Stea S., Toni A., Silipo F., Pirini G., Grilli R.; Journal of Surgical Research, 2009.
- “Analisi di follow-up sui costi degli elementi di artroprotesi d'anca nella Regione Emilia Romagna”. Authors: G. Pirini, F. Silipo, S. Ferro, R. Grilli (Gruppo Regionale Tecnologie Sanitarie – Economic and Financial Planning Service; Agenzia Sanitaria Regione Emilia-Romagna); poster presented at the “Il Forum italiano per la valutazione delle tecnologie sanitarie”, 25–27 January 2007 – Trento.
- “Analisi costo-efficacia degli interventi di artroprotesi d'anca”. Authors: Gian Luca Di Tanna (ASR Emilia Romagna), Barbara Bordini (Laboratorio Tecnologia Medica, Istituti Ortopedici Rizzoli, Bologna), Federico Silipo (Gruppo Regionale Tecnologie Sanitarie – Dir. Gen. San. Pol. Soc. Emilia-Romagna), Susanna Stea (Laboratorio Tecnologia Medica, Istituti Ortopedici Rizzoli, Bologna), Roberto Grilli (ASR Emilia Romagna), Aldo Toni (Laboratorio Tecnologia Medica, Istituti Ortopedici Rizzoli, Bologna), Giampiero Pirini (Gruppo Regionale Tecnologie Sanitarie – Dir. Gen. San. Pol. Soc. ER), Salvatore Ferro (Servizio Presidi Ospedalieri – Assessorato Politiche per la Salute – ER); 2007.
- “Telecardiologia integrata per la defibrillazione extraospedaliera”. Authors: F. Silipo, G. Pirini, E. Roli, R. Zennaro, F. Melandri, M. Garagnani (AUSL Modena – Clinical Engineering and Cardiology Services); poster presented at the “Il Forum italiano per la valutazione delle tecnologie sanitarie”, 25–27 January 2007 – Trento.
- “Sistemi di identificazione automatica – Applicazioni sanitarie – Sussidi per la gestione del rischio 7”, Dossier 135-2006, Agenzia Sanitaria Regionale, Emilia-Romagna Region. Authors: G. Pirini, G. Arcuri, C. Conti (Servizio Ingegneria Clinica AUSL Modena), G. Falasca, M. Selvatici (DEIS, University of Bologna), F. Silipo (Gruppo Regionale Tecnologie Sanitarie – Economic and Financial Planning Service).
- “Un esempio di rilevazione dei dati di utilizzo di Medical Device. Le protesi d'anca”. Authors: G. Pirini, F. Silipo (Gruppo Regionale Tecnologie Sanitarie – Economic and Financial Planning Service); RIMAT – Mirandola, 6 October 2006.

- “Criteri di valutazione dell'efficienza del blocco operatorio e principali azioni di miglioramento”. Authors: Giovanni Arcuri, Federico Silipo, Massimo Garagnani, Claudio Conti, Gianluigi Melotti, Micaela Piccoli, Vincenzo Trapani, Alessandra Susi, Giorgio Lenzotti, Anne Marie Pietrantonio, Elisabetta Bertellini, Luca Capitani. Tecnica Ospedaliera, issue 1, January 2015.
- “Progettazione e inserimento di un sistema di tracciabilità nella centrale di sterilizzazione”. Authors: Federico Silipo, Giovanni Arcuri, Massimo Garagnani; E-Health – Innovazione e tecnologia in ospedale, issue 34, January–February 2015.

Personal data

I authorise the processing of my personal data contained in this curriculum vitae pursuant to Italian Legislative Decree No. 196 of 30 June 2003 and to the GDPR (EU Regulation 2016/679).

Modena, 15/07/2026 Federico Silipo