

PERSONAL INFORMATION



Giuseppe Cavalleri

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Sex Male | Birth date 28/07/1976 | Nationality Italian

WORK & RESEARCH
EXPERIENCE

From November 2025 to Today

Expert in railway system, with specialization in maintenance management and maintenance engineering in the field of railway vehicles. In-depth knowledge of ECM system, risk assessment, RAMS clauses EN50126, EU regulations 2019/779, EU 402/2013, EN17023, EU 2016/798, organization and management of maintenance systems, integrated systems and quality, competence management system, vehicle authorization processes, interoperability TSI clauses, railway operation.

Sapienza University of Rome - DICEA - Dipartimento di Ingegneria Civile, Edile e Ambientale - Via Eudossiana 18 - 00184 ROMA, ITALY

PhD Student & Research Fellow

Rolling stock safety critical components integrity analysis – Condition based maintenance for rolling stock – Human and organizational factor in maintenance model development - PHM – Automatic methods in failures detection

From March 2016 to Today

Siemens Mobility S.r.l., Via Vipiteno 4, 20128 Milano

2024 May - today

ECM II - Head of Maintenance Engineering Department
Keeper of Siemens Mobility Italy Locomotive Fleet

2016 November – 2024 May

ECM I Manager – Maintenance Management system
ECM II ad interim
Responsible Competence management system

2016 March – 2016 November

Maintenance engineer

- CBM projects for locomotive interval maintenance stretching, optimization of maintenance plan, risk assessment for pantographs, wheelsets and braking equipment, reliability and dynamic performance management, development of predictive algorithm in Siemens Platform Railigent X for the new intelligent Siemens locomotive platform
- Management of safety organizations of the maintenance system, processes, safety culture
- 150 Vehicles responsible for Maintenance system, technical instructions and monitoring documentation, components requirements and performances in more than 10 EU countries;
- Manager for modification of maintenance plan, upgrade approval and industrialization of different vehicle platforms
- Standards and regulation manager
- Lecturer, member of scientific committee and examiner for Second Level Master - IISF (Railway System) in University of Sapienza in Rome since 2017
- Technicians' trainer and competence manager
- Internal and second party certified audits, conducted more than 50 audits.
- Reference person for Siemens Mobility in EDU project with Italian Ministry of Education MIUR

Activity or industry Manufacturing and maintenance of rolling stock

- From September 2011 **Politecnico di Milano, P.zza Leonardo da Vinci, 32 – 20133 Milano (MI) – Italia**
External Collaborator - Teaching
Teaching principles of construction, operation and maintenance of rail vehicles and rail terminals
- Activity or industry** Politecnico di Milano, **Railway System** Course and Terminals and Transportation Facilities Course - Prof. Maja - Civil Transportation Engineering - Master's Degree
- from June 2015 to February 2016 **Self employed**
Consultant at various rail vehicle maintenance workshops in Italy
- Support workshops for certification according to VPI, quality system development and competency management, technical consulting, training of maintenance personnel
- Eurogateway S.r.l., Via Panseri, 132 - 28100 Novara (NO) – Italia**
- Freight wagon maintenance personnel training, updating skill management system, organizing maintenance system, writing technical instructions, technical support
- Activity or industry** Railway vehicle maintenance and railway operator
- from May 2013 to April 2015 **Ambrogio Trasporti Spa, Via Tognasca, 5 – 21013 Gallarate (VA) – Italia**
Employee - Technical Management and Purchasing Department
- Freight wagon and terminal crane fleet management. Vehicle maintenance, CUU management, technical specifications and spare parts, maintenance management system (ECM) organization.
- Activity or industry** Freight wagon and terminal maintenance at intermodal operator (MTO)
- from July 2011 to December 2014 **EMGO, Via Magenta, 9 – 21010 – Varese (VA) - Italia**
Partner and Technical Manager
- Workshop and maintenance tool development
 - Rail vehicle development (retrofitting, revamp, homologation)
 - Rail accident and damage appraisals.
- Activity or industry** Services for purchase and maintenance of rail vehicles
- From September 2011 **Politecnico di Milano, P.zza Leonardo da Vinci, 32 – 20133 Milano (MI) – Italia**
External Collaborator - Teaching
- Teaching principles of construction, operation and maintenance of rail vehicles and rail terminals
- Activity or industry** Politecnico di Milano, **Railway System** Course and Terminals and Transportation Facilities Course - Prof. Maja - Civil Transportation Engineering - Master's Degree
- From July 2011 to September 2012 **MET Academy, via della Moscova, 40/1 – 20121 Milano (MI) Italia**
Lecturer and Business Advisor
- Teaching fundamentals of transportation technology and economics.
 - Business Advisor for projects in Nicaragua (new waterway and railways)
- Activity or industry** Postgraduate School - Second-level master's degree in economics, tourism, transportation, land and energy management
- From April 2010 to December 2012 **Corrail S.r.l., Via Magenta, 9 – 21010 – Varese (VA) – Italia**
Partner and Director
- Development of workshops and maintenance tools
 - Execution of freight wagon maintenance
 - Planning, staff training and business support for start-up of new freight wagon maintenance workshop in Bologna Interporto terminal.
 - Consulting for freight wagon approval

Activity or industry Rail vehicle maintenance services

From April 2008 to December 2010

AAE – Ahaus Alstätter Eisenbahn AG – Business Center NeuhoF – NeuhoFstrasse 6342 Baar (Zug) – Switzerland

Consultant - Italy Representative

- Maintenance system development
- International projects, development, and research

Activity or industry Railway wagon rental - Railway vehicle maintenance

From June 2007 to May 2008

SILT S.r.l., Via Sommacampagna, 59 – 37137 Verona (VR) – Italia
Technical Manager

- Rail car maintenance services

Activity or industry Freight car maintenance

From November 2006 to May 2007

Ma.st.al S.r.l Via Muratori, 8 – 20135 Milano (MI) – Italia
Fleet planner - Wagon maintenance management

- Mobile freight wagon maintenance workshop contact person

Activity or industry Freight car maintenance

From November 2004 to November 2006

Cemat S.p.A. Via Valtellina 5/7, 20121 Milano (MI) – Italia
Employee - Dispatcher and wagon maintenance management

- Dispatcher, fleet management and technical support

Activity or industry Technical direction of wagon maintenance at Intermodal Operator

EDUCATION AND TRAINING

Education

Phd Candidate – Università Sapienza di Roma – Ingegneria Civile e Trasporti		
Rolling stock safety critical components integrity analysis – Condition based maintenance for rolling stock – Automatic methods in defects detection – PHM models		
ETCR Seminar 2024 – European Railway Centre for Railway - 63° Edition		
College of Europe - Bruges		
Russian language course A1 level		
Certificate of the Politecnico di Milano		
German Language course		
Milan civic schools		
120-hour language course basic level A2		
Master's degree Civil Engineering specialising in transport - Politecnico di Milano		
Thesis on CBM models in railway vehicle maintenance		
Vote 100/100		
Course for site safety managers		
Politecnico di Milano		
120-hour course on safety and organisation of civil construction sites. Qualifying course for the purposes of Legislative Decree 626		
Scientific High School Diploma		
Liceo Scientifico Statale G. Galilei - Palazzolo S/O (BS) - Italy		
Graduated with 60/60 cum laude		

Training

2026	PHME26 Analytics Short Course – PHM Oslo July 2026	
2026	ADVANCED QUANTITATIVE RISK & RESILIENCE ASSESSMENT - Politecnico Milano June 2026	
2025	RAM & PHM 4.0 Politecnico Milano November 2025	

2025	Internal ECM Auditor Certificate (According EU Regulation 779/2019 for rolling stock safety management system) – Siemens Internal October 2025	
2025	EPFL IMC Pre-conference workshop – Graph neural network & Domain Adaptation in Deep Learning – September 2025 – EPFL Lausanne	
2023	ISO 19011 standard training and qualification as ISO 9001 system internal auditor Certificate IMQ Italia – 16 hours	
2023	Course for safety supervisor Certificate AiFOS – 16 hours	
2023	Safety Culture Leadership training ERA Valenciennes - 8 hours	
2022	Manager Foundation – Certificate of attendance Siemens Training for resource managers - 16 hours	
2020	CSM Risk Management – Certificate Siemens Mobility Academy Training Course on Common Risk Assessment Methods, EU 402/2013 – 16 hours	
2019	Regelwerk Koordinator - Certificate of attendance DB Cargo AG – Frankfurt am Main Training course for the DB Cargo AG document and regulatory system	
2019	Electrical worker (1A + 2A) - Certificate of attendance Synergia per Siemens Mobility S.r.l. Standard CEI EN 50110-1 and standard CEI 11-27	
2015	Rollingstock brake test - Certificate of attendance DB Fahrzeug Instandhaltung by Eurogateway Novara Training course for brake test execution with DB Pdr devices	
2013	DAKO Brake Equipment - Attendance Certificate Dako CZ a.s. Via Budovatelů 323, 538 43 Třemošnice, Czech Republic Training course at Dako for brake equipment maintenance	
2000	Politecnico di Milano and ENI S.p.A. Milano Workshop on the design and construction of offshore platforms	

PERSONAL SKILLS

Native language	Italian				
Other language	COMPREHENSION		SPEAKING		WRITING
	Listening	Reading	Interaction	Speaking Production	
English	C1	C1	C1	C1	C1
	TOEFL certificate obtained during university studies				
German	B1	B1	B1	B1	B1
Russian	A1	A1	A1	A1	A1
	Levels: A1/2 Basic level - B1/2 Intermediate level - C1/2 Advanced level Common European Framework of Reference for Languages				

FURTHER INFORMATION

Publications

Articles published in journals in the field.

- La manutenzione "a pit stop", in *"Manutenzione"*, maggio 2011
- Manutenzione vs produzione, in *"Manutenzione"*, maggio 2012
- Berlino Innotrans 2012, in *"I Treni Oggi"*, ottobre 2012
- Berlino Innotrans 2014, in *"I Treni Oggi"*, ottobre 2014
- ECM, quali vantaggi e opportunità? in *"Manutenzione"*, maggio 2017
- Competenze dell'ingegnere di manutenzione, in *"Manutenzione"*, gennaio 2024
- Quantum Computing in Railway Sector, in *"Ingegneria Ferroviaria"*, febbraio 2025

Projects

- Project "Kuppelstange", 2006, Development of a rigid coupling for freight cars, with Cemat and UIRR
- CTBU Tapered Bearings. 2006 – 2007, Measurement campaigns along the Brenner axis to validate the thermal behaviour of SKF CTBU-type bushings, with Cemat, AAE and Lloyd's Rail Register
- UIC – LL-Project, LL brake pads testing and approval campaign, 2008-2009 - with AAE and Lloyd's Register
- UNI SC4, Update UNI 11134 standard, Maintenance Indices, at UNI - 2012
- ITS Italy 2020, from 2014 to 2015, European project for research on smart technologies to apply to rail transport, sensors for monitoring vehicle dynamics with the Polytechnic University of Turin and Ministry of University Research - Italy
- UNI SC4, Tele diagnostics standard update, at UNI, 2019

Conferences

Seminars

Recognitions and Awards

Membership in
groups/associations

References

- Winner Maintenance Engineer Award 2023 - Italian Maintenance Association (A.I.MAN).
- Since 2023 teaching activity in the courses "Railway Project" and "Transport Technique and Economics" at Politecnico di Milano, Prof. Maja.
- Since 2022 member of the Editorial Board of the journal Railway Engineering (CIFI).
- Since 2017 Lecturer and member of the Teaching Council and Examination Board of the IISF Master's Degree at Sapienza University of Rome, second level master's degree in Transportation Systems and Railway Infrastructure.
- Lecturer in the Siemens Digital Academy project in the year 2018.
- Lecturer since 2020 with Siemens and Accenture and Junior Achievement in the Lombardy Region project on educational guidance - Project "Io mi metto in gioco" - for secondary schools of the first and second order.

Association:

- Member of CIFI - Collegio Ingegneri Ferroviari Italiani
- Member of AIMAN, Italian Maintenance Association
- Founder of Man.Tra, Transportation Maintenance Association, from 2011 to 2013 Director
- Member of PHM Society - The Prognostics and Health Management Society

References

References are available upon request.

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Chiari, August 2026

Giuseppe Cavalleri