



CURRICULUM VITAE

Andreas MELINATO

Forensic Engineer, Fire Investigator
PE, MCSFS, MIET, MIAAI

Malta Life Sciences Park
San Gwann SGN 3000
Malta

Tel. (+356) 2741.5138
a.melinato@eufor.eu
www.eufor.eu

CAREER SUMMARY

Forensic Engineer with over 20 years' experience in the forensic science field as forensic engineering expert, fires and explosions investigator and anti-counterfeiting expert.

First in Italy to introduce the "forensic engineering" field in 2006, with the "Studio di Ingegneria Forense", a consulting firm operating in this specific sector and serving numerous national and international law firms, leading Italian and international companies, magistrates and public and private investigative structures and agencies.

Vast experience as expert witness in Court and for Prosecutors' Offices around Italy, and as forensic consultant for the "Guardia di Finanza", the Police and the Military forces.

Over 15 years' experience as professor in forensic science and technology in secondary schools, private educational institutions and universities.

Director of the Technical Consulting Division of the Institute of Forensic Sciences in Italy and Director of the European Forensic Institute in Malta.

EDUCATION

Staffordshire University (Stoke-on-Trent, United Kingdom), **Post Graduate Certificate in Forensic Science**, 2009

Università di Padova (Padua, Italy), **MSc in Electrical Engineering**, 1998

University of Central Lancashire (Preston, United Kingdom), **Undergraduate Diploma in Forensic Science I & II**, 2006 – 2007

Cranfield University, Defense Academy of the United Kingdom (Shrivenham, UK), **Fakes and Forgeries Certificate**, 2010

Malta Life Sciences Park
San Gwann SGN 3000
Malta

Tel. (+356) 2741.5138
info@eufor.eu
www.eufor.eu

I.T.I.S. Max Planck (Treviso, Italy), **Undergraduate Diploma in Electronics**, 1990

TRAINING

Forensic Questioned Document Examination, Dr. Mike Allen, Staffordshire University (Stoke-on-Trent, United Kingdom), 2010 / 2011

Document Examination: More than just Handwriting Analysis, The Forensic Science Society (United Kingdom), 2011

Investigation & Tactical Intelligence Analysis, Tendo Solutions (London, United Kingdom), 2012

Fire Investigation, IAAI UK Chapter Annual Training Conference, 2013

Fire Investigation "From Ignition to Conclusion", UK-AFI IAAI UK Chapter Conference, 2013

Security and Intelligence, Università Internazionale UNISED (Milan, Italy), 2013

Investigating Motor Vehicles Fires, International Association of Arson Investigators, CFITrainer.net, 2013

Web Intelligence for investigation, Università Internazionale UNISED (Milan, Italy), 2014

Root Cause Analysis, The Institute of Risk Management (London, United Kingdom), 2014

Annual Training Conference, United Kingdom Association of Fire Investigators (London, United Kingdom), 2016

Annual Training Conference, United Kingdom Association of Fire Investigators (Latimer Place, United Kingdom), 2017

Advance Principles of Fire Dynamics Program, FI-UK / Gulf Coast Fire, (London, United Kingdom), 2017

Annual Educational Conference, The International Association for Identification (San Antonio, Texas, USA), 2018

Certificates:

- Fracture Examination Workshop
- Blood, Inks and GSR: Imaging in the IR Spectrum
- 3D Footwear and Tire Tread Impression Capture

Annual Training Conference, United Kingdom Association of Fire Investigators (Latimer Place, United Kingdom), 2018

"What doesn't kill you makes you stronger", The Chartered Society of Forensic Sciences Autumn Conference (Glasgow, United Kingdom), 2019



Charting Your Career Path in Fire Investigation, International Association of Arson Investigators, CFITrainer.net, 2020

DNA, International Association of Arson Investigators, CFITrainer.net, 2020

Documenting the Event, International Association of Arson Investigators, CFITrainer.net, 2020

Ethics and the Fire Investigator, International Association of Arson Investigators, CFITrainer.net, 2020

Evidence Examination: What Happens at the Lab?, International Association of Arson Investigators, CFITrainer.net, 2020

Explosion Dynamics, International Association of Arson Investigators, CFITrainer.net, 2020

Fire Chemistry, International Association of Arson Investigators, CFITrainer.net, 2020

Fire Flow Analysis, International Association of Arson Investigators, CFITrainer.net, 2020

Introduction to Evidence, International Association of Arson Investigators, CFITrainer.net, 2020

NFPA 1033 and Your Career, International Association of Arson Investigators, CFITrainer.net, 2020

Physical Evidence at the Fire Scene, International Association of Arson Investigators, CFITrainer.net, 2020

Writing the Initial Origin and Cause Report, International Association of Arson Investigators, CFITrainer.net, 2020

Residential Electrical Systems, International Association of Arson Investigators, CFITrainer.net, 2020

Fire Investigator Scene Safety, International Association of Arson Investigators, CFITrainer.net, 2020

The Scientific Method for Fire and Explosion Investigation, International Association of Arson Investigators, CFITrainer.net, 2020

The Practical Application of the Relationship Between NFPA 1033 and NFPA 921, International Association of Arson Investigators, CFITrainer.net, 2020



PROFESSIONAL EXPERIENCE

Director

European Forensic Institute - EFI | San Gwann - Malta www.eufor.eu

2018 > Present

Director of the High Education Institution accredited by the NCFHE of the Ministry of Education in Malta. Now managing the institution offering a BSc in Forensic Science and Criminal Investigation and a BSc in Investigative Criminology and Criminal Psychology and Training Programs for Professionals internationally.

Director of the Forensic Consulting Department

Institute of Forensic Sciences - ISF | Milano / Treviso - Italy www.scienzeforensi.net

2016 > Present

Director of the Forensic Consulting Department of ISF and Senior Forensic Engineering specialized in failure analysis, accident reconstruction, fire and explosion investigation and anti-counterfeiting in Italy and abroad. Lecturer of Forensic Engineering and Fire and Explosion Investigation at the ISF Corporate University in Milan.

Senior Forensic Engineer - Founder

Studio di Ingegneria Forense – SIF / SIF06 | Ponzano Veneto (TV) - Italy | www.studioingegneriaforense.it

2006 > 2018

Successfully investigated the causes of several cases of failure / defect / breakdown / fire of materials, products, plants and machineries in the fields of electrical, electronic and electromechanical engineering.

Performed risk analysis, surveys and tests / measurements of products, plants, processes and machineries as support of design departments, quality managers and HSE managers.

Successfully investigated several cases of counterfeited products and documents, brands and patents.

Expert Witness in Court.

Electrical Engineer – Department Director

Associazione tra Professionisti Eurocemis | Ponzano Veneto (TV) - Italy | www.eurocemis.it

2000 > 2006

Performed CE certification and tests / measurements of products, plants and machineries as support of design departments and quality managers.

Performed risk analysis and tests / measurements of products, plants and machineries as support of design departments, quality managers and HSE managers.

Developed HSE management system for many small and medium (<200 workers) companies. HSE consultant experience.

Performed design of electrical plants (home and industrial), automation plants and security plants (banks, museums, access control, automatic gates, biometric control systems).

Played key role as forensic investigator, anti-fraud investigator and intelligence analyst in law enforcement and supporting national and multinational companies.

IMQ ground system surveyor and analyst.

Electromagnetic fields measurement and simulation (LF – MF - -HF – Telecommunications).

Teacher

Technical High School | Treviso - Italy

2000 > 2008

Teacher of Design of Electrical Machines, Design of HV – MV – LV Electrical Plants and Industrial Automation Systems.

Electrical Engineer

Alstom T&D S.p.A. | Venezia - Italy | www.alstom.com

1998 > 1999

Performed design of circuit breakers / switches for high voltage power stations.

Performed tests of high voltage devices for power stations.

Developed the internal standards and regulation compliance system.

Contributed to the maintenance of the ISO 9001 certification (design office).

Developed the costs analysis procedures of the production.

Electrical Engineer

A.T.E. s.r.l. | Vicenza - Italy | www.ate.it

1998 > 1998

Performed design of electromagnetic field ovens for metal treatment

Performed computer modelling and measurement of electromagnetic field distribution

PRESENTATIONS AND LECTURES

Forensic Engineering, Contract Lecturer, ISF Corporate University, 2016 > Present

Fire and Explosion Investigation, Contract Lecturer, ISF Corporate University, 2016 > Present

Research Methods and Professional Ethics, Contract Lecturer, European Forensic Institute, 2108 > Present

Road Accident Investigation, Contract Lecturer, European Forensic Institute, 2108 > Present

Fire and Explosion Investigation, Contract Lecturer, European Forensic Institute, 2108 > Present

Forensic Engineering: computer modelling techniques in the investigation of an event. Practical demonstration, Forensic Meeting 2018, Milan – Italy, 2018

Introduction to Forensic Engineering, Guest Lecturer, AVANS University, Breda – The Netherlands, 2016

Introduction to Forensic Engineering, Guest Lecturer at Master in Philosophical and Forensics Anthropology, Criminologists and Advanced Investigative Techniques, Università Pontificia S. Bonaventura, Rome – Italy, 2015

European Forensic Educational Network, Active Partner, EU Project, The Netherlands and Belgium, 2016 - 2018



PROFESSIONAL STANDING

Professional Member of the Forensic Science Society (MFSSoc), United Kingdom, 2001 > present

Member of Ordine degli Ingegneri della Provincia di Treviso n. 2118 (PE), Italy, 1999 > Present

Member of The Institution of Engineering and Technology (MIET), United Kingdom, 2013 > Present

Member of Albo dei Consulenti Tecnici del Tribunale di Treviso (Expert Witness List), Italy, 2000 > Present

Professional Member of International Association of Arson Investigators (MIAAI), USA, 2012 > Present

Member and Board Member of Associazione Nazionale Criminalisti e Criminologi, Italy, 2017 > Present.