

ROBERT ELLIOTT MITAI LCGI MCSFS CPCFCI

**PRINCIPAL FORENSIC COLLISION INVESTIGATOR
CCTV & DASHCAM VIDEO ANALYST**

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An Independent Independent Forensic Collision Investigator specialising in the investigation and reconstruction of road traffic collisions and associated evidence types including the examination of all types of vehicles, the examination of CCTV & Dashcam video and elements of Human Factors including night-time recognition and driver's responses in emergency situations (PRT).

Over 31 years' experience as an accepted Expert Witness in all levels of Court, as a trained Single Joint Expert, a Court appointed Expert and holds the following professional qualifications:

PROFESSIONAL QUALIFICATIONS

Licentiate of the City and Guilds Institute in Motor Vehicle Inspections [**LCGI**]

Membership of the Institute of Traffic Accident Investigators [**MITAI**]

Member of the European Association for Accident Research and Analysis [**EVU**]

Member of the Chartered Society of Forensic Sciences [**MCSFS**]

Certificate of Professional Competence for Forensic Collision Investigation [**CPCFCI**]

External Examiner for De Montfort University overseeing the UCPD, Cert HE, FdSc and BSc courses in Forensic Collision Investigation [2020-2025].

A Membership Grades Assessor on behalf of The Institute of Traffic Accident Investigators.

Trained and qualified to assess and certificate the competency and vocational qualifications of others in the field of Collision Investigation within the framework of the Regulated Qualifications Framework (RQF) and holds an NVQ Level 3 Assessor Certificate.

Has been assessed by The Institute of Traffic Accident Investigators and has been awarded a Certificate of Professional Competence in Forensic Collision Investigation (CPCFCI).

Shown on the UK Register of Expert Witnesses as a verified Expert.

Registered as First Tier (verified) Expert Witness with The Association of Personal Injury Lawyers.

A Registered Forensic Practitioner with the Council for the Registration of Forensic Practitioners (CRFP) in the speciality of Road Transport Investigation, a trained Membership Grades Assessor, and a Forensic Practitioner of the Academy of Experts until the closure of the CRFP.

Dealt with complex cases in the UK ranging from careless driving to murder as well as in Hong Kong, Grand Cayman, Morocco, Canada, Egypt, South Africa, Bahrain, the Channel Islands and Germany. Accepted as an Expert Witness during Court proceedings in all levels of Court, and as a Single Joint Expert, on behalf of the CPS, the Police and legal representatives of Defendants in criminal cases as well as legal representatives of Claimants and Defendants in civil cases.

Previously a serving Police Officer for almost fourteen years up until retirement as a result of an injury on duty. Left with a Certificate of Exemplary Service. Spent over 11 years on the Road Traffic Department including over five years within the specialised Collision Investigation Unit as a full-time dedicated Collision Investigator where his primary role was the investigation and reconstruction of fatal collisions for HM Coroner. As a serving Police Collision Investigator and Traffic Patrol Officer, attended many hundreds of fatal and serious collisions, investigating and reconstructing many based upon the laws of physics, mathematics, vehicle dynamics, collision investigation techniques, and has received a Police Commendation for his work in this field.

Trained in a variety of specialist subjects/courses including advanced collision investigation and reconstruction techniques, motor vehicle and tyre examination, examination of seat-belts, Forensic examination of light bulbs, CCTV analysis, alcohol related matters, vehicle crush analysis (AIDamage), profiling & measurement, accident repair techniques, Glassmatix and Audatex estimating systems, fraudulent insurance claims, staged collisions, electronic surveying of accident / serious crime scenes, computer aided design, Tachograph installation, testing, calibration and chart analysis, hand held Radar, Police Pilot, ARAS 360HD™, PC-Crash™ and Faro Reality™ advanced 3D animation & modelling software programs, Photogrammetry, Vascar and Laser speed enforcement meters, car body control systems, Bond Solon Excellence in Report Writing, statistics, shock absorber technology, airbag and supplementary restraint systems.

A certified (Bosch) European Crash Data Retrieval (CDR) Technician and a certified Data Analyst.

A trained Operator for Axon Investigate™ CCTV analysis software.

A trained Examiner for Axon Investigate™ CCTV analysis software.

A trained Metrologist for Axon Investigate™ CCTV analysis software.

Trained in the *Assessment of Vehicle Speed from CCTV Analysis* by Hague Forensics and passed by way of examinations, a course [and refresher course in 2026] in '*Video Analysis in Collision Reconstruction*' by FCIR Ltd.

Trained in the use of PC-Crash & the calculation of speed from CCTV/Dashcam video.

Trained in the use of Amped Five forensic software & the calculation of speed from CCTV.

Trained in the use of Axon Investigate forensic software & the calculation of speed from CCTV.

Has comprehensively studied methodology and research in the investigation of incidents involving the question of pedestrian conspicuity and Human Factors. Regularly conducts field evaluation tests & reconstructions as part of a collision investigation in terms of fields of view, lines of sight, night-time visibility, driver detection thresholds and pedestrian conspicuity. Conducted many hundreds of reconstructions, including night-time reconstructions, often jointly with the relevant Police Collision Investigation Expert.

Successfully completed over 150 hours training in Advanced Analysis of Driver's Responses (Human Factors in Traffic Crashes) provided by Dr Jeffrey Muttart, Crash Safety Solutions; which studies results of numerous research papers related to driver Perception and Response Times (PRT) in various circumstances including night-time conspicuity; headlamp illumination and night-time recognition thresholds. The course topics are directly linked to the reference book – *"Drivers' Responses in Emergency Situations – A Quick Reference"* authored by Dr Muttart; and which in turn, are linked to the IDRR software (Interactive Driver Response Research) and RESPONSE research program also authored by Dr Muttart.

Successfully completed 36 hours training in the use & application of the IDRR software (Interactive Driver Response Research) authored by Dr Muttart.

Successfully completed 3 days training in the use & application of the RESPONSE software authored by Dr Muttart, Driver Research Institute.

Completed 40 hours training in *'Bio-Mechanics in Accident Reconstruction'* by Professor Jeffrey A Pike and Greg Sullenberger.

Has received training and is experienced in photographic techniques in relation to forensic recording of evidence for both daylight and night-time investigations, the use of relevant software, and the usage of the resulting images and video when presenting to Courts. Is experienced in conducting photogrammetry surveys and producing accurate three-dimensional point clouds and scene plans thereafter.

Continues to expand his knowledge of the science of Collision Investigation, familiarising himself with new legislation, technology and evolving relevant issues by personal research/testing and by regularly attending Expert Witness Conferences, Seminars, Training Courses, and crash testing / vehicle handling test days.

For 12 years has assisted The Institute of Traffic Accident Investigators in organising their international Crash Day. For the 3 years organised, oversaw, and carried out the low velocity crash testing forming part ITAI's crash day events including being the crash test driver.

Maintains a portfolio of continuing professional development in excess of minimum requirements.