

	<u>NORTH WEST TECHNICAL SERVICES LTD</u>
	<u>CURRICULUM VITAE FOR MR IAN WHITE</u>
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	THE PRINCIPAL
Name	Ian White
Qualifications	BSc (Hon) - Mechanical Engineering - 1973
	Chartered Engineer - 1977
Institutes	Member of the Institute of Traffic Accident Investigators - 1997
	Member of the Institute of Marine Engineering, Science and Technology - 1969
	Member of the Chartered Institute of Arbitrators - 2000
	Associate of the Institute of Automotive Engineering Assessors - 1990
	Member of the National Association of Professional Accident Reconstruction Specialists – 2016
	Background
1973 to 1982	Having served an Engineering Apprenticeship in the Merchant Navy he was initially employed in Marine and Heavy Power Station Design/Construction. He became involved in Motor Vehicle Repair and Mechanical diagnostics whilst working in Jamaica as a consulting Engineer for Alcan PLC between 1980 and 1982.
1982-1988	On his return he worked for a subsidiary of Petrofina UK, initially designing combustion systems for industrial boilers and thereafter, on technical analysis of automotive problems associated with lubricants and fuel.
1988-1989	In 1988 he moved to Western Standard Ltd, which was a small company designing and supplying specialist vehicles and equipment for the oil exploration industry.
1989-present	In 1989 Mr White founded NWTS Ltd, which at that stage offered a Motor Assessing Service to the Insurance Industry and from its inception, also offered Accident Reconstruction to its clients. He has now been working as a Road Traffic Accident Reconstruction Expert for over 30 years.
	Experience
General	<p>Over the last 20 years, Mr White has concentrated on Accident Reconstruction and Forensic Engineering and prides himself on writing lucid reports on complex matters. He has considerable experience in giving Evidence in the Witness Box, which is an aspect he enjoys.</p> <p>He has been involved in a number of high-profile cases, both in the Civil and Criminal Courts and has been instructed on numerous multi-million pound Personal</p>

	Injury Claims, as well as Criminal Matters, up to and including Murder.
3-Dimensions Reconstruction	He is an advocate for the use of Computer Simulation in the assessment of Complex Accidents. Computers have the ability to handle repetitive and complicated calculations, accurately and quickly, enabling the Expert to evaluate collisions in 3-Dimensions. He has used PC-Crash for this purpose for the last 25 years, and has successfully presented 3 dimensional reconstructions and simulations in Court on many occasions. Since 2008 he had been the UK Agent for the PC-Crash program.
Photographic Techniques	<p>He has a keen interest in the issues of conspicuity, and uses a camera calibrated for luminosity. The images taken by this method are used to determine the difference in luminosity between an object and its background. If the differential luminosity is insufficient, then the object cannot be seen by a glancing driver. If the differential luminosity breaks the threshold, then that part of the object can be seen against its background.</p> <p>He also has a keen interest in using photogrammetry for the generation of 3D images of both motor vehicle damage and site plans.</p>
Forensic Evidence	<p>Mr White has developed methods for the Inspection of Vehicles and the Collection of Forensic Evidence to produce Specialist Reports for Disclosure, identifying the damage on the vehicles with detailed photographs and measurements. These reports are impartial and specifically do not comment on the significance of the reported damage.</p> <p>They are a useful as a record, which can then be called upon at a later date by the Experts finally instructed by the Parties. By that time there is a high probability that the vehicles involved will either have been repaired or disposed of, and without this type of report, the evidence would be lost.</p>
	Training
	<p>He runs 3-day Modular training courses in the different aspects of PC-Crash, for both Private Practitioners and Police Forces. These programs have been agreed with FCIN and include an examination leading to a Certificate of Competence in each Module.</p> <p>He runs an Annual UK Workshop weekend as a refresher course for those Certified to use PC-Crash as Kinetic Accident Reconstruction program.</p> <p>He holds - Level 3 Award in Education and Training (PTTLS) - 2019 - Level 3 Certification in Assessing Vocational Achievement (CAVA) – 2020</p>
	Published Papers
IAEA	The Practice of Brazing Ultra High Strength Steels (IAEA Journal 2005)
ITAI	Changes in Steel Construction of Motor Vehicles and the Importance of Correct Repair (Conference Paper 2005)
EVU Prague	Forensic Analysis of an Airborne Roll-Over (Conference Paper 2010)
ITAI and EVU Graz	Verification of a Reconstruction using PC-Crash by reference to Real Time Video Footage (Conference Paper at both venues 2011)
EVU/ITAI Edinburgh	Normal Lane Change Manoeuvres of Motorways and Dual Carriageways (Conference Paper 2015)

EVU Dubrovnik	Using a 3D Point Cloud in the Analysis of CCTV Footage (Conference Paper 2018)
EVU Israel	Night Time Visibility of Pedestrians on Unlit Roads (Conference Paper 2021)
	Areas of Expertise
	Motor Vehicle Accident Reconstruction
	Reconstruction from Video and CCTV footage
	Collection of Forensic Evidence from Vehicles
	Forensic Analysis of Low Speed Accidents
	Locus Reports and Conspicuity Analysis (see equipment)
	Fitness for purpose regarding motor vehicles
	Certified Technician and Analyst for Bosch CDR Downloads
	Industrial Accidents involving motor vehicles
	Programs and Equipment
3-D Reconstruction	PC-Crash Accident Reconstruction Program , for 3D accident reconstruction, CCTV analysis and video simulation
Conspicuity	Analysis a luminosity calibrated Canon Camera with PC-Rect Software for conspicuity under Headlamp and Street Light illumination. Lux Metres and IDRR Program for headlamp Illumination assessment
Photogrammetry	Agisoft Software with GoPro, SLR and Drone cameras Cloud Compare for registering point clouds
Video and CCTV	Siraview, Photoshop, GOM and GIMP to interrogate CCTV footage. Where a more detailed study is required we outsource to a CCTV Specialist.
Vehicle Data	Carweb Database , for vehicle specifications and related DVLA data.
Plans and Site Survey	Global Mapper terrain details combined with Google Earth and Street Views. Site Survey by Geo Station, Dumpy Level and Agisoft.
General	Numerous specialist programs either developed by NWTS or by our peer group.
	Recent Courses Attended
CDR	EUDARTs CDR Technician/Analyst Course date 11.2015
Statistics	Rich Consulting – Microsoft Excel for Traffic Crash Reconstruction – date 04.2016
CCTV	Hague Forensics – Calculation of Speed from CCTV – date 07.2017
Human Factors	Crash Safety Research Centre – Human Factors – date 03.2019
Teaching	Highfield – Highfield Level 3 Award in Education and Training – date 08.2019
Assessing	ATDirect – Level 3 Certificate in Assessing Vocational Achievement (CAVA) – date 11.2011
Camera	Cameracal – Camera Techniques for Forensic Purposes – date 11.2019
Human Factors	Crash Safety Research Centre – Human Factors IDRR Program – date 01.2021
Occupant Dynamics	ITAI 5 Day course – date 06.2021
CCTV	FCIR – 5 Day Course – 12.2021